

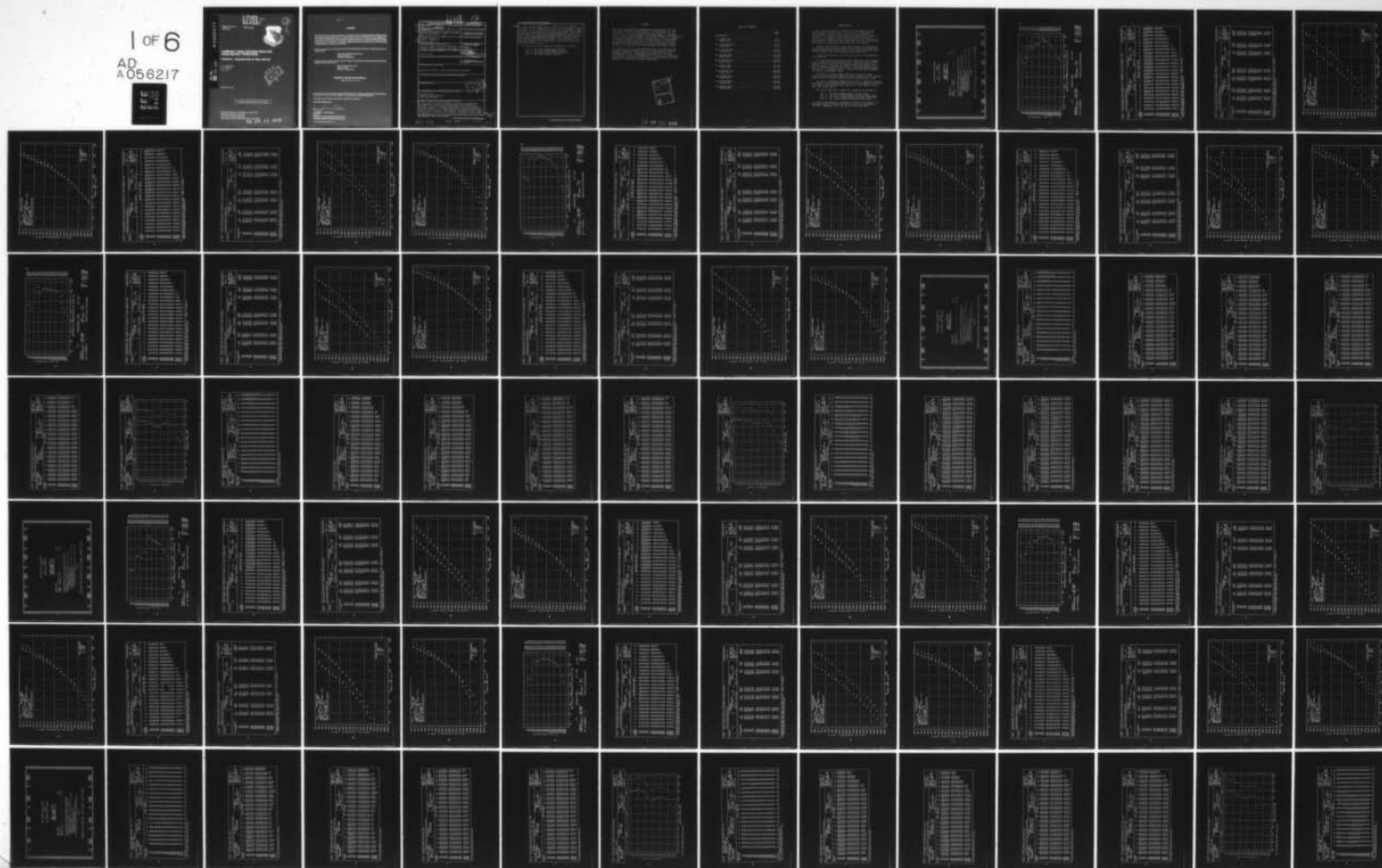
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COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)
MAR 78 J D SPEAKMAN, R G POWELL, R A LEE
AMRL-TR-73-110-VOL-6

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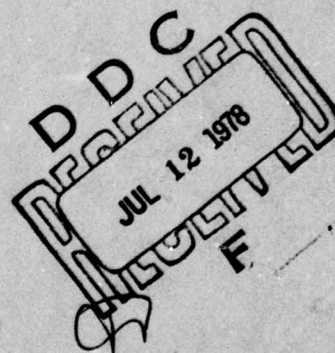


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COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS

Volume 6. Acoustic Data on Navy Aircraft

J. D. SPEAKMAN
R. G. POWELL
R. A. LEE



FEBRUARY 1978

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AEROSPACE MEDICAL RESEARCH LABORATORY
AEROSPACE MEDICAL DIVISION
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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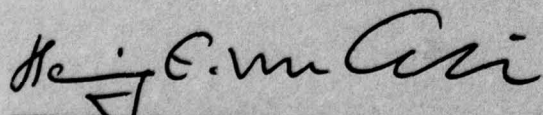
TECHNICAL REVIEW AND APPROVAL

AMRL-TR-73-110, Vol 6

This report has been reviewed by the Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



HENNING E. VON GIERKE

Director

**Biodynamics and Bioengineering Division
Aerospace Medical Research Laboratory**

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This series of reports presents the results of field test measurements to define the noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented in terms of various acoustic measures over the range 200-25,000 feet minimum slant distance to the aircraft. For ground runups, data are presented as a function of angle and distance to the aircraft.		

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→ All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity. Volume 1 discusses the scope, limitations, and definitions needed to understand and use the volumes containing the noise data. It provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 6 for the following aircraft: A-3, TA-4J; RA-56; A-6A; AV-8A; F-8; F-14A; P-3A; S-3A; and T-2C. ←

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft
- Vol. 3: Air Force Attack/Fighter Aircraft
- Vol. 4: Air Force Trainer/Fighter Aircraft
- Vol. 5: Air Force Propeller Aircraft

PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt N. A. Farinacci of the Biodynamic Environment Branch.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

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INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event, far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 6 provides the noise characteristics of Navy/Marine type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground runups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft Noise
- Vol. 3: Air Force Attack/Fighter Aircraft Noise Data
- Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
- Vol. 5: Air Force Propeller Aircraft Noise Data

Direct any questions concerning the data in this report to: AMRL/BBE, Wright-Patterson AFB OH 45433; Autovon 78-53664 or 78-53605; Commercial (513) 255-3664 or (513) 255-3605.

	30	40	50	60	70	80	90	100	MEAN	SD
50	(	(	(	(	(	(	(	(	74.1)
63	(	(	(	(	(	(	(	(	74.5)
80	(	(	(	(	(	(	(	(	73.3)
100	(	(	(	(	(	(	(	(	79.2)
125	(	(	(	(	(	(	(	(	87.3)
160	(	(	(	(	(	(	(	(	91.4)
200	(	(	(	(	(	(	(	(	89.1)
250	(	(	(	(	(	(	(	(	88.4)
315	(	(	(	(	(	(	(	(	91.7)
400	(	(	(	(	(	(	(	(	92.7)
500	(	(	(	(	(	(	(	(	92.3)
630	(	(	(	(	(	(	(	(	95.3)
800	(	(	(	(	(	(	(	(	98.1)
1000	(	(	(	(	(	(	(	(	96.7)
1250	(	(	(	(	(	(	(	(	95.4)
1600	(	(	(	(	(	(	(	(	95.0)
2000	(	(	(	(	(	(	(	(	94.4)
2500	(	(	(	(	(	(	(	(	91.9)
3150	(	(	(	(	(	(	(	(	90.0)
4000	(	(	(	(	(	(	(	(	87.7)
5000	(	(	(	(	(	(	(	(	83.7)
6300	(	(	(	(	(	(	(	(	80.6)
8000	(	(	(	(	(	(	(	(	78.4)
10000	(	(	(	(	(	(	(	(	75.5)

A-3 TAKEOFF POWER 96 X RPM
 AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 116.7 PND8
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 X PNL = 116.2 PND8
 NO. OF RECORDS = 1 IDENT: 6.6-513-103-190276 ALT = 105.4 DBA
 AL = 104.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																											
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																											
AIRCRAFT:		A/C CODE: 513																											
A-3		OPS CODE: 103																											
		PROFILE VER: A																											
		19 FEB 76																											
		PAGE M1																											
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																											
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40						
88	89	87	93	101	106	103	103	106	107	107	110	113	112	111	111	111	109	108	108	105	105	107	111						
86	87	85	91	99	104	101	101	104	105	105	108	111	110	109	109	109	107	106	105	102	102	104	108						
315	34	83	89	97	102	99	99	102	103	103	106	109	108	107	107	106	105	104	103	100	99	101	104						
400	82	83	81	87	95	100	97	97	100	101	101	104	107	106	105	104	104	102	101	100	97	96	98	100					
500	80	81	79	85	93	98	95	98	99	99	102	105	103	102	102	102	100	99	98	94	93	94	95						
630	78	79	77	83	91	95	93	96	97	97	100	103	101	100	100	100	97	96	95	91	89	89	90						
800	76	77	75	81	89	93	91	90	94	95	94	97	100	99	98	97	95	93	91	88	85	84	83						
1000	74	75	73	79	87	91	89	88	92	93	92	95	98	97	95	95	94	92	90	88	84	81	78	76					
1250	72	72	71	77	85	89	87	86	90	91	90	93	96	94	93	92	92	89	87	84	79	75	72	66					
1600	70	70	69	75	83	87	85	84	87	88	88	91	93	92	90	89	86	83	79	74	69	64	56						
2000	68	68	67	73	81	85	83	82	85	86	86	88	91	89	88	87	85	82	79	74	69	62	54	42					
2500	66	66	65	71	79	83	81	80	83	84	83	86	88	86	85	83	82	78	74	68	62	53	42	26					
3150	64	64	63	69	77	81	78	78	81	81	81	83	86	84	81	80	78	73	68	61	54	43	28	7					
4000	62	62	61	67	75	79	76	75	78	79	78	81	83	80	78	76	73	68	62	53	45	31	11						
5000	60	60	59	65	73	76	74	73	76	76	75	78	79	77	74	71	68	62	54	43	34	15							
6300	58	58	57	62	70	74	72	70	73	74	72	74	76	73	70	66	62	55	45	31	20								
8000	56	56	55	60	68	72	69	68	71	71	69	71	72	68	65	60	55	46	34	17	3								
10000	53	54	52	58	66	69	66	65	68	67	66	67	68	63	59	53	47	36	21										
12500	51	51	50	56	63	67	64	62	64	64	62	63	63	58	52	45	37	23	5										
16000	49	49	48	53	61	64	61	59	61	60	57	58	57	51	44	35	25	8											
20000	47	47	45	51	58	61	58	56	57	56	52	52	50	43	34	24	11												
25000	44	44	43	48	55	58	54	52	53	51	47	45	42	33	23	9													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 513	
(OPERATION:)										OPS CODE: 103	
(TAKEOFF POWER)										PROFILE VER: A	
(96 % RPM)										19 FEB 76	
()										PAGE 11	
(AIRSPEED = 350 KNOTS)										DELTA N = 0.0 DB	
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	121.3	121.9	133.7	134.2	119.8	120.9	123.1				
250	119.1	119.6	131.4	132.0	118.5	119.6	121.9				
315	116.8	117.3	129.1	129.6	117.3	118.4	120.5				
400	114.5	115.0	126.6	127.2	116.0	117.1	119.1				
500	112.2	112.7	124.1	124.7	114.6	115.7	117.6				
630	109.8	110.3	121.6	122.1	113.2	114.3	116.0				
800	107.3	107.9	118.9	119.5	111.8	112.9	114.4				
1000	104.8	105.4	116.2	116.7	110.3	111.4	112.6				
1250	102.3	102.8	113.3	113.8	108.7	109.8	110.7				
1600	99.6	100.1	110.2	110.7	107.0	108.1	108.6				
2000	96.8	97.3	107.0	107.5	105.3	106.4	106.4				
2500	93.9	94.4	103.5	104.1	103.4	104.5	104.0				
3150	90.8	91.4	99.9	100.4	101.3	102.4	101.3				
4000	87.6	88.0	96.4	96.9	99.1	99.9	98.6				
5000	84.2	84.5	92.8	93.1	96.6	97.3	95.8				
6300	80.5	80.7	89.0	89.2	94.0	94.4	92.7				
8000	76.6	76.7	84.8	85.0	91.1	91.3	89.4				
10000	72.5	72.5	80.4	80.4	87.9	87.9	85.8				
12500	68.0	68.0	76.2	76.2	84.5	84.5	82.5				
16000	63.3	63.3	71.6	71.6	80.8	80.8	79.0				
20000	58.4	58.4	66.7	66.7	76.9	76.9	75.0				
25000	53.4	53.4	61.5	61.5	72.8	72.8	70.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	A-3	96 % RPM	TAKEOFF POWER	ST-E
200	(.)	(.)	(.)	(.)
250	(.)	(.)	(.)	(.)
315	(.)	(.)	(.)	(.)
400	(.)	(.)	(.)	(.)
500	(.)	(.)	(.)	(.)
630	(.)	(.)	(.)	(.)
800	(.)	(.)	(.)	(.)
1000	(.)	(.)	(.)	(.)
1250	(.)	(.)	(.)	(.)
1600	(.)	(.)	(.)	(.)
2000	(.)	(.)	(.)	(.)
2500	(.)	(.)	(.)	(.)
3150	(.)	(.)	(.)	(.)
4000	(.)	(.)	(.)	(.)
5000	(.)	(.)	(.)	(.)
6300	(.)	(.)	(.)	(.)
8000	(.)	(.)	(.)	(.)
10000	(.)	(.)	(.)	(.)
12500	(.)	(.)	(.)	(.)
16000	(.)	(.)	(.)	(.)
20000	(.)	(.)	(.)	(.)
25000	(.)	(.)	(.)	(.)

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 513	
(OPERATION:)										OPS CODE: 103	
(TAKEOFF POWER)										PROFILE VER: A	
(96 % RPM)										19 FEB 76	
()										PAGE M1	
(AIRSPEED = 350 KNOTS)										DELTA N = 0.0 DB	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	116.3	116.3	128.7	128.7	114.8	115.4	117.6				
250	114.1	114.1	126.4	126.4	113.5	114.1	116.3				
315	111.8	111.8	124.1	124.1	112.3	112.8	114.9				
400	109.5	109.5	121.6	121.6	111.0	111.5	113.5				
500	107.2	107.2	119.1	119.1	109.6	110.2	112.0				
630	104.8	104.8	116.5	116.5	108.2	108.8	110.4				
800	102.3	102.3	113.8	113.8	106.8	107.4	108.7				
1000	99.8	99.8	111.0	111.0	105.3	105.9	106.9				
1250	97.2	97.2	107.9	107.9	103.7	104.3	104.8				
1600	94.5	94.5	104.7	104.7	102.0	102.6	102.6				
2000	91.7	91.7	101.3	101.3	100.2	100.8	100.2				
2500	88.7	88.7	97.5	97.5	98.2	98.8	97.4				
3150	85.5	85.5	93.3	93.3	96.0	96.6	94.2				
4000	82.1	82.1	89.3	89.3	93.5	94.0	91.1				
5000	78.1	78.1	84.8	84.8	90.6	90.9	87.5				
6300	73.8	73.8	80.0	80.0	87.3	87.5	83.5				
8000	69.5	69.5	75.4	75.4	84.0	84.1	79.9				
10000	64.8	64.8	70.5	70.5	80.3	80.3	75.8				
12500	59.6	59.6	65.1	65.1	76.1	76.1	71.4				
16000	53.9	53.9	59.0	59.0	71.4	71.4	66.3				
20000	47.5	47.5	52.1	52.1	66.0	66.0	60.4				
25000	40.4	40.4	44.2	44.2	59.9	59.9	53.6				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TAKEOFF POWER											X-E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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	20	30	40	50	60	70	80	90	MEAN	SD
50	((((((((70.2)
63	((((((((68.6)
80	((((((((66.9)
100	((((((((79.9)
125	((((((((87.4)
160	((((((((90.4)
200	((((((((85.5)
250	(	(	(	(	(	(	(	(	86.5)
315	(	(	(	(	(	(	(	(	90.7)
400	(	(	(	(	(	(	(	(	87.9)
500	(	(	(	(	(	(	(	(	90.7)
630	(	(	(	(	(	(	(	(	90.3)
800	(	(	(	(	(	(	(	(	89.1)
1000	(	(	(	(	(	(	(	(	88.2)
1250	(	(	(	(	(	(	(	(	87.3)
1600	(	(	(	(	(	(	(	(	86.8)
2000	(	(	(	(	(	(	(	(	85.8)
2500	(	(	(	(	(	(	(	(	84.4)
3150	(	(	(	(	(	(	(	(	82.2)
4000	(	(	(	(	(	(	(	(	78.6)
5000	(	(	(	(	(	(	(	(	72.1)
6300	(	(	(	(	(	(	(	(	66.1)
8000	(	(	(	(	(	(	(	(	61.3)
10000	(	(	(	(	(	(	(	(	57.4)

AIRSPEED = 200 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 1
 APPROACH POWER 89 % RPM
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-513-105-190276
 PNLT = 109.6 PNDB
 PNL = 109.0 PNDB
 ALT = 98.2 DBA
 AL = 97.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
((

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*		IDENTIFICATION:
AIR-TO-GROUND PROPAGATION		
AIRCRAFT:	(OPERATION:	METEOROLOGY:
	(APPROACH POWER	TEMP
A-3	(89 % RPM	REL HUMID = 70 %
	(
	(AIRSPEED = 200 KNOTS	DELTA N = 0.0 DB
		OMEGA 6.6
		A/C CODE: 513
		OPS CODE: 105
		PROFILE VER: A
		19 FEB 76
		PAGE 12

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (OB)	SELT** (OB)	EPNL** (EPNDB)
200	113.4	114.1	126.2	126.8	110.9	112.0	115.5
250	111.3	111.9	123.9	124.6	109.8	110.9	114.3
315	109.1	109.8	121.6	122.3	108.6	109.7	113.0
400	106.9	107.5	119.3	120.0	107.4	108.5	111.6
500	104.6	105.3	116.9	117.5	106.1	107.2	110.2
630	102.3	103.0	114.3	115.0	104.8	105.9	108.7
800	99.9	100.6	111.7	112.4	103.4	104.5	107.0
1000	97.5	98.2	109.0	109.6	102.0	103.1	105.3
1250	95.0	95.7	106.1	106.7	100.5	101.6	103.4
1600	92.4	93.1	103.0	103.7	98.9	100.0	101.3
2000	89.7	90.4	99.9	100.5	97.2	98.3	99.2
2500	86.9	87.6	96.8	97.5	95.4	96.5	97.1
3150	84.0	84.7	93.7	94.4	93.5	94.6	95.0
4000	81.0	81.5	90.5	91.0	91.4	92.3	92.6
5000	77.8	78.2	87.1	87.5	89.3	89.9	90.0
6300	74.4	74.7	83.6	83.9	86.9	87.4	87.3
8000	70.9	71.0	80.0	80.2	84.4	84.6	84.5
10000	67.2	67.2	76.3	76.3	81.7	81.7	81.5
12500	63.3	63.3	72.3	72.3	78.8	78.8	78.5
16000	59.1	59.1	68.0	68.0	75.6	75.6	75.2
20000	54.8	54.8	63.4	63.4	72.3	72.3	71.6
25000	50.2	50.2	58.4	58.4	68.7	68.7	67.6

** EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 *** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

ST-E									
A-3 APPROACH POWER									
200	(((((((((
250	(((((((((
315	(((((((((
400	(((((((((
500	(((((((((
S 630	(((((((((
L 800	(((((((((
N 1000	(((((((((
D 1250	(((((((((
I 1600	(((((((((
S 2000	(((((((((
C 2500	(((((((((
E 3150	(((((((((
I 4000	(((((((((
F 5000	(((((((((
E 6300	(((((((((
T 8000	(((((((((
10000	(((((((((
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((
EX									
NOISE LEVEL IN DB									
40	50	60	70	80	90	100	110	120	

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	89 % RPM	AIRSPEED = 200 KNOTS	DELTA N = 0.0 DB	METEOROLOGY:	TEMP	REL HUMID = 70 %	19 FEB 76
A-3									PAGE M2
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		OMEGA 6.6
200	108.4	109.1	121.2	121.8	105.9	107.0	110.4		
250	106.3	106.9	118.9	119.5	104.8	105.8	109.2		
315	104.1	104.7	116.6	117.3	103.6	104.7	107.9		
400	101.9	102.5	114.3	114.9	102.4	103.4	106.6		
500	99.6	100.2	111.8	112.4	101.1	102.2	105.1		
600	97.3	97.9	109.2	109.9	99.8	100.8	103.5		
800	94.9	95.5	106.5	107.2	98.4	99.5	101.8		
1000	92.4	93.1	103.7	104.3	96.9	98.0	100.0		
1250	89.9	90.5	100.6	101.2	95.4	96.4	97.9		
1600	87.2	87.8	97.3	97.9	93.7	94.7	95.6		
2000	84.4	85.0	93.8	94.4	91.9	93.0	93.1		
2500	81.4	82.0	90.2	90.8	89.9	91.0	90.5		
3150	78.1	78.8	86.3	86.9	87.6	88.7	87.6		
4000	74.5	75.0	82.0	82.5	85.0	85.8	84.0		
5000	70.4	70.7	77.2	77.6	81.9	82.5	80.1		
6300	65.9	66.1	72.2	72.4	78.4	78.8	75.8		
8000	61.7	61.9	67.8	67.9	75.2	75.4	72.2		
10000	57.2	57.2	63.2	63.2	71.7	71.7	68.4		
12500	52.3	52.3	58.2	58.2	67.8	67.8	64.4		
16000	46.9	46.9	52.7	52.7	63.4	63.4	59.9		
20000	41.0	41.0	46.5	46.5	58.5	58.5	54.8		
25000	34.5	34.5	38.8	38.8	52.9	52.9	48.0		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	20	30	40	50	60	70	80	90	MEAN	SD
50	(.	66.8)
63	(.	66.1)
80	(.	63.4)
100	(.	74.0)
125	(.	80.2)
160	(.	83.7)
200	(.	79.0)
250	(.	78.4)
315	(.	81.8)
400	(.	81.9)
500	(.	82.7)
630	(.	82.4)
800	(.	82.1)
1000	(.	82.2)
1250	(.	81.5)
1600	(.	81.0)
2000	(.	81.5)
2500	(.	79.8)
3150	(.	78.9)
4000	(.	75.4)
5000	(.	68.7)
6300	(.	63.0)
8000	(.	58.5)
10000	(.	55.0)

A-3 INTERMEDIATE POWER 88 % RPM

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 1

IDENT: 6.6-513-106-190276

PNLT = 104.3 PNOB
PNL = 103.7 PNOB
ALT = 92.2 DBA
AL = 91.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 513	
A-3																									OPS CODE: 106	
																									PROFILE VER: A	
																									19 FEB 76	
																									PAGE H3	
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	81	80	77	88	94	98	93	93	96	97	97	97	97	97	97	97	98	97	97	96	90	88	88	91		
250	79	78	75	86	92	96	91	91	94	94	95	95	95	95	95	95	96	95	95	93	88	85	85	88		
315	77	76	73	84	90	94	89	89	92	92	93	93	93	93	93	93	94	93	93	91	85	82	82	84		
400	75	74	71	82	88	92	87	87	90	90	91	91	91	91	91	91	91	90	90	88	82	79	78	80		
500	73	72	69	80	86	90	85	85	88	88	89	89	89	89	88	88	89	88	88	85	79	76	74	75		
630	71	70	67	78	84	88	83	83	86	86	87	87	87	87	86	86	87	85	85	82	76	72	70	69		
800	69	68	65	76	82	86	81	80	84	84	85	85	84	85	84	84	84	83	82	79	73	68	64	63		
1000	67	66	63	74	80	84	79	78	82	82	83	82	82	82	82	81	82	80	79	75	69	63	59	55		
1250	65	64	61	72	78	82	77	76	80	80	81	80	80	80	79	78	79	77	75	71	64	58	52	46		
1600	63	62	59	70	76	80	75	74	78	78	78	78	77	77	76	76	76	73	72	67	59	51	43	35		
2000	61	60	57	68	74	77	73	72	75	75	76	75	75	75	74	73	72	70	67	62	53	44	33	21		
2500	59	58	55	66	72	75	71	70	73	73	74	73	72	72	71	69	69	66	62	56	47	35	22	5		
3150	57	56	53	64	70	73	68	68	71	71	71	70	69	69	67	66	65	61	57	48	39	25	7			
4000	55	54	51	62	68	71	66	65	68	68	68	68	67	66	64	62	60	55	50	40	29	12				
5000	53	52	49	59	65	69	64	63	66	66	66	65	63	62	60	57	55	49	42	30	17					
6300	50	50	47	57	63	66	61	60	63	63	63	61	60	58	55	52	49	42	33	18	3					
8000	48	47	45	55	61	64	59	58	61	60	59	58	56	54	50	46	42	33	22	3						
10000	46	45	42	53	59	62	56	55	58	57	56	54	51	49	44	39	33	23	8							
12500	44	43	40	50	56	59	54	52	54	53	52	49	46	43	37	30	23	10								
16000	42	41	38	48	53	56	51	49	51	49	48	44	40	36	29	20	11									
20000	39	38	35	45	51	53	47	45	47	45	42	38	33	28	19	8										
25000	37	36	33	43	48	50	44	41	43	39	37	32	25	18												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

INTERMEDIATE POWER										
200	A-3	88 X RPM	88 X RPM	88 X RPM	88 X RPM	88 X RPM	88 X RPM	88 X RPM	88 X RPM	88 X RPM
250	((((((((((
315	((((((((((
400	((((((((((
500	((((((((((
S 630	((((((((((
L 800	((((((((((
A 800	((((((((((
N 1000	((((((((((
T 1000	((((((((((
D 1250	((((((((((
I 1600	((((((((((
S 1600	((((((((((
T 2000	((((((((((
A 2000	((((((((((
N 2500	((((((((((
C 2500	((((((((((
E 3150	((((((((((
I 4000	((((((((((
N 4000	((((((((((
F 5000	((((((((((
E 6300	((((((((((
E 8000	((((((((((
10000	((((((((((
12500	((((((((((
16000	((((((((((
20000	((((((((((
25000	((((((((((
NOISE LEVEL IN DB										
50	60	70	80	90	100	110	120	130		

[illegible]

TABLE 1. SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*							
GROUND-TO-GROUND PROPAGATION							
AIRCRAFT:	(OPERATION:	METEOROLOGY:					IDENTIFICATION:
A-3	(INTERMEDIATE POWER	TEMP	= 59 F				
	(88 % RPM	REL HUMID = 70 %					OMEGA 6.6
	(AIRSPEED = 300 KNOTS	DELTA N = 0.0 DB					A/C CODE: 513
							OPS CODE: 106
							PROFILE VER: A
							19 FEB 76
							PAGE M3
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.9	103.5	116.4	117.0	101.0	102.0	105.6
250	100.7	101.3	114.1	114.7	99.8	100.8	104.3
315	98.4	99.1	111.8	112.4	98.5	99.6	103.0
400	96.2	96.8	109.3	110.0	97.3	98.3	101.6
500	93.8	94.5	106.8	107.5	96.0	97.0	100.0
630	91.5	92.1	104.2	104.8	94.6	95.6	98.4
800	89.0	89.6	101.4	102.0	93.1	94.2	96.6
1000	86.4	87.1	98.4	99.0	91.6	92.6	94.6
1250	83.8	84.4	95.2	95.8	89.9	91.0	92.4
1600	81.0	81.7	91.9	92.6	88.1	89.2	90.1
2000	78.1	78.8	88.5	89.1	86.3	87.3	87.7
2500	75.0	75.7	84.6	85.3	84.2	85.2	84.8
3150	71.7	72.3	80.4	81.1	81.8	82.9	81.6
4000	68.0	68.5	75.7	76.2	79.1	80.0	77.7
5000	63.9	64.3	70.6	71.0	76.0	76.6	73.4
6300	59.4	59.7	65.4	65.7	72.5	73.0	69.0
8000	55.2	55.3	60.8	60.9	69.3	69.5	65.2
10000	50.5	50.5	55.9	55.9	65.7	65.7	61.1
12500	45.5	45.5	50.7	50.7	61.6	61.6	56.8
16000	40.1	40.1	44.6	44.6	57.2	57.2	51.7
20000	34.1	34.1	37.0	37.0	52.2	52.2	45.2
25000	27.6	27.6	28.7	28.7	46.7	46.7	37.8

INTERMEDIATE POWER										ST
200	A-3	88 % RPM	88 % RPM	88 % RPM	88 % RPM	88 % RPM	88 % RPM	88 % RPM	88 % RPM	ST
250										ST E
315										ST E
400										ST E
500										ST E
630										ST E
800										ST E
1000										ST E
1250										ST E
1600										ST E
2000										ST E
2500										ST E
3150										ST E
4000										ST E
5000										ST E
6300										ST E
8000										ST E
10000										ST E
12500										ST E
16000										ST E
20000										ST E
25000										ST E

[illegible]

NOISE PRODUCED ON THE GROUND BY

A-3 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

YES 76-513-001
AIRCRAFT CODE: 513
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

02 JUN 76

**AERIGHI-
OSTI-
CAPA
TIERSON
AIR
SEKONCE
JASSE.
VOTTO
VOTTO**

[illegible]

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(A-3 AIRCRAFT																			
(ENG. J57-P-10																			
(GROUND RUNUP																			
(EST. F-100 +0.208																			
(OPERATION:																			
(IDLE, A-3																			
(53 % RPM																			
(SINGLE ENGINE																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = .2 DB																			
METEOROLOGY:																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.0	101.3	100.5	99.9	99.5	96.6	96.7	93.9	92.9	93.5	96.4	96.3	100.3	96.7	94.4	93.6	79.7	73.7	80.1
250	97.8	99.1	98.2	97.7	97.3	94.3	94.5	91.7	90.7	91.2	94.2	94.0	98.1	94.4	92.1	91.3	77.4	71.3	77.8
315	95.5	96.7	95.9	95.3	95.0	91.9	92.2	89.4	88.3	88.9	91.9	91.7	93.4	89.7	87.2	86.6	75.0	68.9	75.5
400	93.1	94.3	93.5	92.9	92.6	89.4	89.8	87.0	86.0	86.5	89.5	89.3	93.4	89.7	87.2	86.6	72.5	66.5	73.1
500	90.5	91.8	91.0	90.4	90.1	86.8	87.3	84.5	83.5	84.0	87.0	86.8	90.9	87.2	84.7	84.1	70.0	63.9	70.6
630	87.9	89.2	88.4	87.8	87.5	84.3	84.7	81.9	80.8	81.3	84.4	84.2	88.3	84.6	82.1	81.4	67.3	61.0	67.9
800	85.2	86.5	85.6	85.0	84.8	81.6	81.9	79.2	78.1	78.6	81.6	81.4	85.5	81.9	79.3	78.6	64.4	57.9	65.2
1000	82.2	83.5	82.7	82.1	81.8	78.9	79.0	76.3	75.2	75.6	78.7	78.5	82.6	79.0	76.3	75.6	61.2	54.6	62.1
1250	79.0	80.4	79.5	78.9	78.7	76.0	75.9	73.2	72.3	72.5	75.6	75.4	79.5	76.1	73.1	72.4	57.6	50.8	58.7
1600	75.6	77.0	76.1	75.5	75.3	72.9	72.5	69.8	69.3	69.4	72.2	72.4	76.1	73.1	70.0	69.0	53.8	46.5	54.9
2000	71.8	73.2	72.4	71.8	71.6	69.5	68.8	66.1	65.1	65.2	68.8	69.2	72.5	69.9	66.7	65.2	49.2	41.8	50.8
2500	67.7	69.1	68.3	67.6	67.5	65.9	64.6	61.9	60.9	61.0	64.8	65.2	68.5	65.9	62.7	60.9	43.7	35.6	45.7
3150	63.0	64.5	63.7	63.0	62.9	62.0	60.0	57.4	56.4	56.5	60.6	60.7	64.3	61.5	58.2	56.0	36.8	28.1	39.5
4000	58.0	59.3	58.4	57.7	57.7	57.5	54.7	52.4	52.7	53.1	55.8	55.7	59.8	56.5	53.4	50.3	28.6	17.9	32.5
5000	52.2	53.1	52.3	51.6	51.5	52.6	49.2	46.8	47.4	47.8	50.5	50.1	54.7	50.8	47.5	43.2	15.9	7.8	22.5
6300	45.9	46.0	45.6	45.4	44.1	47.2	43.1	40.5	41.0	41.6	44.5	44.0	49.2	44.8	41.2	36.4	3.1		9.4
8000	38.3	39.3	39.6	39.9	38.4	41.1	37.9	35.4	35.9	36.4	39.4	38.7	44.0	39.7	35.9	30.3			
10000	30.9	32.6	33.4	33.9	31.8	34.0	30.8	29.0	29.9	30.3	33.4	33.3	38.4	33.9	29.8	21.3			
12500	20.7	23.4	25.1	27.4	23.7	25.3	24.9	22.2	23.6	24.0	27.5	27.4	32.5	28.1	21.4	10.1			
16000	8.1	11.3	16.2	18.5	12.5	9.0	15.6	12.6	14.1	14.3	19.6	17.6	25.3	18.4	12.3				
20000			7.4	7.5	1.3		6.2	3.0	4.6	4.6	8.1	7.8	15.1	8.6	3.2				
25000													4.9						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-3 AIRCRAFT																			
ENG. J57-P-10																			
GROUND RUNUP																			
EST. F-100 +0.2DB																			
OPERATION: IDLE, A-3																			
53 % RPM																			
SINGLE ENGINE																			
DELTA N = .2 DB																			
METEOROLOGY: TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
AIRCRAFT CODE 513																			
OPERATION CODE 01013																			
PROFILE VERSION A																			
02 JUN 76																			
PAGE E1																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-513-001																			
RUN 01																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	101.0	102.5	102.0	101.4	101.6	100.7	98.5	95.7	94.0	94.6	97.5	97.7	101.7	97.3	95.1	95.7	80.7	74.9	83.3
250	98.8	100.3	99.7	99.1	99.3	98.4	96.3	93.4	91.8	92.3	95.3	95.4	99.5	95.1	92.8	93.4	78.4	72.6	81.1
315	96.5	97.9	97.4	96.7	97.0	96.0	94.0	91.1	89.4	90.0	93.0	93.1	97.2	92.8	90.4	91.1	76.0	70.2	78.7
400	94.1	95.5	95.0	94.4	94.6	93.5	91.6	88.7	87.1	87.6	90.6	90.7	94.8	90.4	87.9	88.6	73.5	67.7	76.3
500	91.5	93.0	92.5	91.8	92.1	90.9	89.1	86.2	84.6	85.1	88.1	88.2	92.3	87.9	85.4	86.1	71.0	65.1	73.9
630	88.9	90.4	89.9	89.2	89.5	88.4	86.5	83.6	81.9	82.4	85.5	85.6	89.7	85.3	82.8	83.5	68.3	62.3	71.2
800	86.2	87.7	87.1	86.5	86.8	85.7	83.7	80.9	79.2	79.7	82.7	82.8	86.9	82.5	80.0	80.6	65.4	59.2	68.4
1000	83.2	84.7	84.2	83.5	83.9	83.0	80.8	78.0	76.3	76.7	79.8	79.9	84.0	79.6	77.0	77.7	62.2	55.9	65.3
1250	80.0	81.6	81.0	80.4	80.7	80.1	77.7	74.9	73.4	73.6	76.7	76.8	80.9	76.7	73.8	74.5	58.6	52.1	62.0
1600	76.6	78.2	77.6	77.0	77.4	77.0	74.3	71.5	70.4	70.5	73.3	73.7	77.6	73.7	70.7	71.0	54.8	47.7	58.2
2000	72.8	74.4	73.9	73.2	73.7	73.7	70.6	67.8	67.2	67.3	69.9	70.6	73.9	70.6	67.5	67.2	50.2	43.0	54.1
2500	68.7	70.3	69.8	69.1	69.6	70.0	66.4	63.6	63.2	63.4	65.9	66.6	69.9	66.6	63.4	62.9	44.7	36.9	48.9
3150	64.0	65.7	65.2	64.4	65.0	66.1	61.8	59.1	58.7	59.2	61.7	62.1	65.7	62.2	58.9	58.0	37.8	29.3	42.8
4000	58.8	60.2	59.7	58.9	59.3	60.8	56.1	53.7	53.6	54.0	56.7	56.8	60.9	57.0	53.9	51.9	29.4	18.9	35.1
5000	52.8	53.9	53.3	52.5	52.7	55.1	50.3	47.9	48.1	48.5	51.1	50.9	55.5	51.2	48.0	44.4	16.5	8.6	24.5
6300	46.3	46.5	46.2	45.9	46.9	48.8	43.8	41.2	41.4	42.0	45.0	44.6	49.7	45.1	41.5	37.2	3.5		10.7
8000	38.5	39.6	39.9	40.2	38.8	41.9	38.3	35.7	36.2	36.6	39.6	39.0	44.3	39.9	36.1	30.8			
10000	30.9	32.6	33.4	33.9	31.8	34.0	30.8	29.0	29.9	30.3	33.4	33.3	38.4	33.9	29.8	21.3			
12500	20.7	23.4	25.1	27.4	23.7	25.3	24.9	22.2	23.6	24.0	27.5	27.4	32.5	28.1	21.4	10.1			
16000	8.1	11.3	16.2	18.5	12.5	9.0	15.6	12.6	14.1	14.3	19.6	17.6	25.3	18.4	12.3				
20000		7.4	7.5	1.3			6.2	3.0	4.6	4.6	8.1	7.8	15.1	8.6	3.2				
25000									4.9										

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-3 AIRCRAFT																			
ENG. J57-P-10																			
GROUND RUNUP																			
EST. F-100 +0.208																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = .2 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-513-001																			
RUN 01																			
AIRCRAFT CODE 513																			
OPERATION CODE 01013																			
PROFILE VERSION A																			
02 JUN 76																			
PAGE F1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.2	87.1	86.2	85.8	84.7	84.4	81.9	79.2	78.9	79.5	82.0	82.3	85.9	82.6	80.1	78.2	64.3	58.8	64.6
250	84.0	84.9	83.9	83.6	82.5	82.3	79.7	77.1	76.8	77.4	79.9	80.1	83.7	80.5	77.9	76.0	62.1	56.7	62.5
315	81.7	82.6	81.7	81.3	80.2	80.1	77.5	74.9	74.6	75.2	77.7	77.9	81.5	78.3	75.7	73.7	59.9	54.5	60.3
400	79.3	80.2	79.3	78.9	77.9	77.8	75.2	72.7	72.5	73.0	75.5	75.7	79.3	76.1	73.5	71.4	57.5	52.2	58.1
500	76.9	77.8	76.9	76.5	75.5	75.5	72.9	70.4	70.2	70.7	73.2	73.5	77.0	73.9	71.2	69.0	55.2	49.9	55.9
630	74.4	75.3	74.4	74.0	73.1	73.2	70.5	68.1	67.9	68.4	70.9	71.1	74.6	71.6	68.8	66.6	52.7	47.6	53.5
800	71.8	72.6	71.8	71.3	70.5	70.8	68.0	65.7	65.6	66.0	68.5	68.8	72.2	69.3	66.4	64.1	50.1	45.1	51.1
1000	69.0	69.9	69.1	68.6	67.8	68.3	65.4	63.2	63.2	63.6	66.0	66.3	69.7	66.9	63.9	61.4	47.4	42.6	48.6
1250	66.2	67.0	66.3	65.7	64.9	65.7	62.8	60.6	60.7	61.1	63.5	63.8	67.1	64.3	61.3	58.7	44.6	39.9	46.0
1600	63.1	63.9	63.3	62.8	62.0	63.0	60.0	58.0	58.1	58.5	60.8	61.1	64.4	61.7	58.7	55.9	41.7	37.1	43.2
2000	59.9	60.6	60.2	59.7	58.8	60.1	57.1	55.2	55.5	55.8	58.1	58.4	61.7	59.0	55.9	52.9	38.6	34.2	40.3
2500	56.5	57.1	56.8	56.4	55.4	56.7	53.9	52.1	52.4	52.7	55.0	55.3	58.5	55.8	52.9	49.8	35.2	31.0	37.0
3150	52.7	53.3	53.1	52.8	51.7	53.8	50.3	48.6	48.9	49.3	51.5	51.9	55.1	52.4	49.5	46.3	31.6	27.5	33.4
4000	48.7	49.3	49.2	49.0	47.7	50.3	46.4	44.8	45.0	45.6	47.6	48.1	51.3	48.5	45.7	42.6	27.7	23.6	29.5
5000	44.2	44.8	44.7	44.7	43.2	46.3	42.0	40.5	40.8	41.4	43.3	43.9	47.1	44.3	41.6	38.5	23.6	19.4	25.2
6300	39.3	40.0	40.0	40.2	38.5	42.0	37.5	36.0	36.3	36.9	38.8	39.5	42.7	39.8	37.2	34.0	19.1	15.0	20.7
8000	34.6	35.6	35.6	36.2	34.3	37.4	33.5	32.3	32.6	33.2	35.2	35.7	38.7	36.0	33.3	29.9	15.0	11.1	16.9
10000	29.6	30.9	31.1	31.8	29.9	32.3	29.4	28.2	28.7	29.2	31.3	31.6	34.5	31.9	29.1	25.4	10.6	7.1	13.0
12500	24.5	26.0	26.3	27.1	25.2	26.6	24.9	23.9	24.4	24.9	27.0	27.1	29.9	27.5	24.6	20.7	6.1	2.7	8.7
16000	19.0	20.7	21.1	22.0	20.2	20.5	20.1	19.1	19.8	20.1	22.3	22.3	25.0	22.7	19.7	15.5	1.5		4.1
20000	13.2	14.8	15.5	16.4	14.7	14.1	14.9	13.9	14.6	14.9	17.2	17.0	19.7	17.5	14.5	10.0			
25000	6.9	8.4	9.4	10.2	8.6	7.5	9.2	8.1	9.0	9.1	11.5	11.3	14.0	11.9	8.8	4.3			

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
(A-3 AIRCRAFT																		
(ENG. J57-P-10																		
GROUND RUNUP																		
(EST. F-100 +0.208																		
(OPERATION:																		
(ENGINE RUNUP, A-3																		
(70 % RPM																		
(SINGLE ENGINE																		
(TEMP = 59 F																		
(BAR PRESS = 29.92 IN HG																		
(REL HUMID = 70 %																		
(DELTA N = .2 DB																		
METEOROLOGY:																		
(AIRCRAFT CODE 513																		
(OPERATION CODE 01021																		
(PROFILE VERSION A																		
(02 JUN 76																		
(PAGE C2																		
IDENTIFICATION:																		
(OMEGA 8.2																		
(TEST 76-513-001																		
RUN 02																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63<	64	63	64	65	66	69	68	68	70	70	73	74	77	77	79	75	73
63	63<	65<	64<	65<	67	68	71	70	70	71	71	74	76	78	79	78	73	70
80	63	65	66	67	69	72	71	71	70	72	72	76	77	78	79	77	68	64
100	68	67	69	69	68	71	75	75	75	74	75	78	79	80	79	75	66<	62<
125	69	70	70	71	70	73	77	77	76	75	77	79	81	81	77	71	64<	61<
160	71	73	73	72	73	74	78	79	78	79	80	80	82	81	76	68	62<	59<
200	69	69	71	70	71	72	77	77	76	78	78	79	78	77	69	65<	60<	57<
250	67	68	70	69	70	72	75	75	74	75	76	77	77	75	65	62<	58<	55<
315	69	69	69	70	72	73	76	75	75	72	77	80	79	75	64	59	55<	53<
400	71	73	73	75	76	78	78	79	79	75	79	80	78	74	65	58	53<	51<
500	71	74	74	75	78	76	78	79	79	78	78	79	74	72	65	55	51<	49<
630	68	70	71	71	72	71	73	73	73	76	75	73	78	75	72	65	56	49
800	72	74	73	73	73	74	75	74	76	70	75	74	78	73	68	64	53	48
1000	75	74	73	71	70	73	69	70	72	71	71	73	77	71	68	64	53	46
1250	79	76	75	73	72	77	71	71	72	68	69	72	77	69	67	66	55	47
1600	75	72	70	68	67	69	67	66	68	67	67	75	69	66	61	53	46	43
2000	75	74	73	70	73	72	74	69	69	66	68	70	69	64	60	54	46	43
2500	81	83	83	80	81	80	75	73	73	67	71	67	67	63	59	55	48	44
3150	77	79	78	76	77	77	76	73	71	67	70	67	69	66	64	58	46	42
4000	82	83	81	78	78	81	75	77	77	74	81	76	81	76	71	63	59	52
5000	76	75	75	73	73	72	73	69	71	67	70	67	73	71	68	60	52	45
6300	73	76	74	73	73	72	71	68	69	66	68	68	69	67	66	60	51	44
8000	71	70	70	69	69	70	69	67	69	67	69	67	70	68	65	61	54	48
10000	65	66	66	64	65	65	64	64	62	66	64	67	66	63	58	50	44	39
OVERALL	88	89	89	87	87	88	89	88	87	89	88	91	90	89	86	84	79	76
XXX< = EXTRAPOLATED OR INTERPOLATED SPL																		

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(A-3 AIRCRAFT																			
(ENG. J57-P-10																			
(GROUND RUNUP																			
(OPERATION:																			
(ENGINE RUNUP, A-3																			
(70 % RPM																			
(SINGLE ENGINE																			
(EST. F-100 +0.208																			
METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = .2 DB																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 76-513-001																			
(RUN 02																			
(AIRCRAFT CODE 513																			
(OPERATION CODE 01021																			
(PROFILE VERSION A																			
(02 JUN 76																			
(PAGE D2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	105.1	105.9	105.3	102.9	103.5	104.9	103.9	102.2	102.5	100.0	104.2	101.4	105.1	102.0	98.8	92.6	87.3	80.4	77.4
250	102.8	103.6	103.0	100.6	101.3	102.6	101.7	99.9	100.2	97.7	101.9	99.1	102.8	99.6	96.4	90.3	84.9	78.0	75.0
315	100.4	101.1	100.7	98.2	98.9	100.2	99.4	97.5	97.8	95.3	99.5	96.7	100.4	97.2	94.1	87.9	82.5	75.5	72.5
400	97.8	98.6	98.3	95.8	96.5	97.6	97.0	95.0	95.3	92.8	97.0	94.2	97.9	94.8	91.6	85.4	79.9	72.9	70.0
500	95.2	95.9	95.8	93.3	94.0	95.0	94.5	92.4	92.6	90.2	94.3	91.6	95.3	92.1	88.9	82.7	77.2	70.3	67.3
630	92.3	93.2	93.1	90.7	91.4	92.2	91.8	89.6	89.8	87.4	91.5	88.8	92.5	89.3	86.1	79.9	74.4	67.4	64.4
800	89.4	90.4	90.3	87.9	88.6	89.3	89.1	86.6	86.8	84.4	88.5	85.8	89.5	86.3	83.2	76.9	71.4	64.4	61.3
1000	86.5	87.4	87.4	84.9	85.7	86.4	86.1	83.5	83.6	81.2	85.3	82.7	86.3	83.1	80.0	73.7	68.2	61.1	57.7
1250	83.2	84.2	84.2	81.7	82.5	83.2	83.0	80.4	80.2	78.1	81.7	79.2	82.9	79.6	76.5	70.3	64.7	57.1	53.8
1600	79.8	80.8	80.7	78.3	79.1	79.8	79.6	77.0	76.5	75.1	77.9	75.7	79.1	75.9	73.2	66.9	60.7	52.7	49.2
2000	76.0	77.0	77.0	74.6	75.3	76.0	75.9	73.3	73.3	71.9	73.7	72.5	75.2	72.6	69.8	63.3	56.4	48.3	44.6
2500	71.9	72.8	72.8	70.4	71.2	71.9	71.7	69.7	69.8	68.5	70.1	68.8	71.3	68.6	65.7	59.1	51.3	43.0	38.9
3150	67.3	68.2	68.2	65.7	66.6	67.2	67.1	65.5	65.6	64.3	65.9	64.6	67.1	64.0	61.0	54.5	45.5	35.9	30.5
4000	62.0	63.0	63.0	60.5	61.3	62.0	61.8	60.9	61.0	59.8	61.4	60.0	62.5	59.2	56.0	48.9	38.9	26.7	19.3
5000	56.2	57.0	57.0	54.5	55.4	56.1	55.8	55.8	55.9	54.7	56.2	55.0	57.5	54.0	50.5	42.6	29.3	13.3	8.0
6300	50.6	50.0	49.9	47.5	48.2	49.0	48.9	47.5	48.2	46.9	49.3	48.1	50.7	48.1	44.3	35.5	18.1		
8000	44.4	43.0	42.6	40.5	41.3	42.0	41.9	40.5	41.2	40.0	42.6	41.4	44.9	43.2	39.1	29.4	6.9		
10000	37.1	36.7	36.6	34.5	35.3	36.0	35.9	34.5	35.2	34.0	36.6	35.4	38.9	37.2	32.6	21.6			
12500	27.5	29.5	29.6	27.2	28.0	28.7	28.6	27.2	28.0	26.7	29.3	28.1	31.6	30.0	25.7	9.9			
15000	12.7	20.3	20.7	22.2	23.6	25.7	26.4	24.8	25.5	24.0	26.6	25.3	30.0	28.7	22.7	16.6			
20000	8.1	8.4	10.2	14.3	11.6	16.1	18.5	16.1	18.6	18.4	20.3	19.9	19.9	12.7	6.8				
25000				2.8		5.8	7.1	7.1	7.1	7.1	8.0	6.6	6.7	2.6					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-3 AIRCRAFT																			
ENG. J57-P-10																			
GROUND RUNUP																			
OPERATION:																			
ENGINE RUNUP, A-3																			
70 X RPM																			
SINGLE ENGINE																			
EST. F-100 +0.2DB																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = .2 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 513																			
OPERATION CODE 01021																			
PROFILE VERSION A																			
02 JUN 76																			
PAGE E2																			
IDENTIFICATIONS																			
OMEGA 8.2																			
TEST 76-513-001																			
RUN 02																			
AIRCRAFT CODE 513																			
OPERATION CODE 01021																			
PROFILE VERSION A																			
02 JUN 76																			
PAGE E2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
200	107.0	107.9	107.5	104.6	105.3	107.3	105.8	104.1	104.6	102.5	107.8	104.3	107.9	104.6	100.6	94.0	89.5	82.6	80.2
250	104.6	105.5	105.2	102.3	103.1	104.9	103.5	101.8	102.3	100.2	105.4	102.0	105.6	102.3	98.3	91.6	87.1	80.2	77.9
315	102.2	103.1	102.9	100.0	100.8	102.5	101.2	99.4	99.9	97.8	103.0	99.6	103.2	99.9	95.9	89.2	84.7	77.8	75.4
400	99.6	100.6	100.5	97.6	98.3	100.0	98.8	96.9	97.4	95.3	100.5	97.1	100.7	97.4	93.4	86.7	82.1	75.2	72.8
500	97.0	97.9	98.0	95.0	95.8	97.3	96.3	94.3	94.7	92.7	97.9	94.5	98.0	94.8	90.8	84.0	79.5	72.5	70.1
630	94.1	95.2	95.3	92.4	93.2	94.5	93.7	91.5	91.9	89.9	95.0	91.7	95.3	92.0	88.0	81.2	76.6	69.7	67.2
800	91.2	92.4	92.5	89.6	90.4	91.7	90.9	88.5	89.0	86.9	92.0	88.8	92.3	89.0	85.0	78.3	73.6	66.6	64.1
1000	88.3	89.4	89.6	86.6	87.5	88.7	88.0	85.5	85.8	83.7	88.8	85.6	89.1	85.8	81.8	75.1	70.4	63.3	60.5
1250	85.1	86.2	86.4	83.4	84.3	85.5	84.8	82.3	82.3	80.6	85.3	82.1	85.6	82.3	78.4	71.6	66.9	59.4	56.6
1600	81.6	82.7	82.9	80.0	80.9	82.1	81.4	78.9	78.7	77.6	81.4	78.7	81.8	78.6	75.1	68.2	62.9	55.0	52.0
2000	77.8	79.0	79.2	76.3	77.2	78.4	77.7	75.2	75.5	74.4	77.2	75.5	78.0	75.3	71.7	64.6	58.7	50.6	47.4
2500	73.7	74.8	75.0	72.1	73.0	74.2	73.6	71.6	71.9	71.0	73.7	71.7	74.0	71.3	67.6	60.5	53.6	45.3	41.7
3150	69.1	70.2	70.4	67.5	68.4	69.6	68.9	67.4	67.7	66.8	69.5	67.6	69.8	66.7	62.9	55.8	47.7	38.1	33.3
4000	63.5	64.5	64.7	61.9	62.8	63.9	63.3	62.5	62.7	61.8	64.2	62.4	64.7	61.3	57.5	50.0	40.7	28.6	21.5
5000	57.2	58.2	58.3	55.5	56.4	57.5	56.9	56.9	57.2	56.2	58.3	56.7	59.2	55.5	51.6	43.4	30.7	14.6	9.7
6300	51.3	50.8	50.8	48.2	49.9	50.9	50.7	51.0	51.2	50.3	52.2	50.6	53.2	49.2	45.0	36.0	19.0	7.7	
8000	44.8	43.4	43.1	42.8	44.6	44.4	45.1	45.7	45.0	45.1	47.0	45.4	48.1	43.7	39.5	29.7	7.3		
10000	37.1	36.7	36.6	36.5	38.6	38.4	39.0	39.6	40.2	39.2	40.4	39.2	42.1	37.2	32.6	21.6			
12500	27.5	29.5	29.6	30.2	32.3	31.6	32.9	34.2	34.5	33.5	35.1	33.7	36.3	30.8	26.5	9.9			
16000	12.7	20.3	20.7	22.2	25.7	23.6	26.4	27.8	28.0	27.1	28.7	26.6	30.0	22.7	16.6				
20000	8.1	8.4	10.2	14.3	11.6	16.1	18.5	18.6	18.4	20.3	16.6	19.9	12.7	6.8					
25000				2.8		5.8	7.1	7.1	7.1	8.0	6.6	6.7	2.6						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
(NOISE SOURCE/SUBJECT:)										(METEOROLOGY:)									
(A-3 AIRCRAFT)										(TEMP = 59 F)									
(ENG. J57-P-10)										(BAR PRESS = 29.92 IN HG)									
(GROUND RUNUP)										(REL HUMID = 70 %)									
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TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(A-3 AIRCRAFT)										()									
(ENG. J57-P-10)										()									
(GROUND RUNUP)										()									
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TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
A-3 AIRCRAFT																
ENG. J57-P-10																
GROUND RUNUP																
EST. F-100 +0.20B																
OPERATION:																
MILITARY POWER, A-3																
SINGLE ENGINE, 97% RPM																
DEFLECTED FLOW																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = .2 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 76-513-001																
RUN 03																
AIRCRAFT CODE 513																
OPERATION CODE 01004																
PROFILE VERSION A																
02 JUN 76																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160 >170 >180
79	78	81	80	83	82	83	85	86	85	88	91	95	100	103	104	97 90 84
81	83	82	83	84	84	85	87	88	90	89	94	98	104	107	106	99 93 86
83	84	84	86	84	85	87	88	90	90	92	96	101	107	110	109	102 95 89
86	87	86	86	86	88	89	90	91	93	95	100	105	112	112	109	102 96 89
89	88	90	89	88	91	91	93	94	96	99	104	110	115	116	112	105 99 92
91	90	91	90	91	92	94	94	95	97	101	107	112	118	118	112	106 99 92
90	90	90	90	91	93	94	94	95	98	100	105	109	117	118	112	105 98 92
89	89	88	90	91	92	92	94	96	96	100	104	108	114	117	111	104 98 91
91	91	90	93	92	92	93	95	97	100	102	104	109	113	115	115	105 98 91
94	93	93	95	93	95	96	97	100	102	104	109	113	115	115	109	102 95 89
90	89	89	93	92	93	94	96	97	100	103	107	110	112	113	104	97 90 84
89	89	89	92	91	92	94	96	99	100	102	106	109	111	113	104	97 90 84
88	87	88	92	91	93	95	96	99	101	103	106	110	109	110	99	92 86 79
87	86	87	91	90	91	93	96	99	101	101	104	107	108	109	100	93 86 80
85	85	85	90	89	89	92	94	97	100	100	103	105	104	106	97	90 83 77
85	85	84	88	88	89	92	95	98	100	100	102	104	102	105	96	89 82 76
86	88	87	88	88	88	92	95	99	101	99	101	103	101	103	96	89 82 76
89	91	90	89	89	89	93	96	98	100	98	99	100	99	102	96	89 82 76
85	86	86	86	86	87	91	93	96	98	97	96	96	98	99	93	86 80 73
83	84	84	86	85	86	90	93	96	98	96	97	98	98	98	92	85 78 72
81	83	83	84	83	85	90	91	94	96	95	97	99	96	96	89	83 76 69
77	80	79	81	80	83	87	89	91	94	93	95	96	93	94	87	81 74 67
76	78	77	79	79	82	85	88	91	93	94	94	94	91	93	85	78 72 65
71	72	73	74	74	77	81	83	86	88	89	93	90	88	88	81	74 68 61
101	101	101	103	103	104	105	107	110	112	113	117	121	125	126	120	114 107 100

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			OMEGA 8.2	
NOISE SOURCE/SUBJECT:																			TEST 76-513-001	
(A-3 AIRCRAFT																			RUN 03	
(ENG. J57-P-10																			AIRCRAFT CODE 513	
(GROUND RUNUP																			OPERATION CODE 01004	
(BAR PRESS =29.92 IN HG	
(REL HUMID = 70 %	
(02 JUN 76	
(PAGE D1	
(
DISTANCE																			ANGLE (DEGREES)	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	114.4	115.6	114.9	115.9	115.7	116.4	119.4	121.8	124.4	126.4	126.1	128.4	131.4	133.3	134.6	128.1	121.4	114.8	108.1	
250	112.2	113.4	112.7	113.5	113.1	114.1	117.2	119.5	122.2	124.2	123.9	126.2	129.3	131.1	132.5	126.0	119.3	112.7	105.9	
315	110.0	111.1	110.4	111.4	111.2	111.9	114.9	117.2	119.9	121.9	121.6	123.9	127.1	129.0	130.4	123.9	117.2	110.5	103.8	
400	107.6	108.8	108.1	109.1	108.9	109.5	112.6	114.9	117.6	119.6	119.3	121.6	124.9	126.8	128.2	121.7	115.0	108.3	101.5	
500	105.2	106.3	105.7	106.6	106.4	107.1	110.1	112.4	115.1	117.1	116.8	119.3	122.6	124.5	125.9	119.5	112.6	106.1	99.2	
630	102.7	103.8	103.1	104.1	103.9	104.5	107.5	109.9	112.5	114.5	114.3	116.9	120.2	122.2	123.6	117.1	110.4	103.7	96.9	
800	100.0	101.1	100.4	101.4	101.2	101.8	104.8	107.2	109.8	111.8	111.6	114.4	117.8	119.8	121.2	114.7	108.0	101.2	94.4	
1000	97.2	98.2	97.6	98.6	98.4	99.0	102.0	104.3	107.0	109.0	108.8	111.8	115.2	117.3	118.6	112.2	105.5	98.6	91.7	
1250	94.1	95.2	94.5	95.5	95.3	95.9	98.9	101.2	103.9	105.9	105.7	108.7	112.5	114.6	115.7	109.2	102.5	95.6	88.7	
1600	90.8	91.8	91.1	92.4	92.0	92.7	95.6	97.9	100.6	102.6	102.6	106.2	109.7	111.8	112.7	106.1	99.3	92.5	85.6	
2000	87.7	88.2	87.6	89.3	88.6	89.6	91.9	94.3	97.0	99.0	99.5	103.1	106.7	108.8	109.8	103.1	96.2	89.4	82.4	
2500	83.9	84.2	83.5	85.5	84.8	85.7	88.0	90.3	93.1	95.0	95.7	99.3	103.0	105.0	106.0	99.2	92.3	85.4	78.5	
3150	79.6	79.7	79.1	81.3	80.7	81.4	83.6	86.0	88.9	90.8	91.6	95.1	98.8	100.8	101.8	94.9	88.0	81.1	74.1	
4000	74.8	74.7	74.2	76.9	76.2	77.2	79.4	81.4	84.2	86.3	87.4	90.7	94.1	96.1	97.3	90.0	83.1	76.1	69.2	
5000	69.5	69.3	69.4	72.2	71.5	72.6	74.8	76.8	79.4	81.6	82.9	86.2	89.5	91.3	92.6	84.7	77.8	70.8	63.8	
6300	64.4	64.1	64.2	67.2	66.5	67.5	69.8	71.8	74.4	76.7	78.0	81.3	84.7	86.4	87.7	79.6	72.7	65.6	58.4	
8000	60.3	59.7	59.9	62.9	62.2	63.2	65.3	67.2	70.0	72.2	73.7	77.1	80.5	82.7	83.9	75.8	68.8	61.7	54.3	
10000	55.7	54.9	55.0	58.4	57.6	58.4	60.4	62.5	65.3	67.3	69.1	72.7	76.4	78.7	79.7	71.8	64.7	57.4	49.7	
12500	50.8	50.0	49.9	53.6	52.8	53.5	55.0	57.4	60.2	62.1	64.4	68.2	71.9	74.5	75.4	67.7	60.5	52.9	44.8	
16000	44.9	44.0	43.8	48.0	47.1	48.0	49.5	51.8	54.4	56.7	59.2	63.1	67.1	69.8	70.7	63.3	55.8	48.0	39.2	
20000	38.7	38.0	37.5	41.6	40.4	41.2	42.9	45.5	48.1	50.8	53.5	57.5	61.6	64.6	65.6	58.4	50.7	42.2	33.3	
25000	31.1	30.0	29.5	33.5	32.3	33.5	35.6	38.1	40.5	43.6	46.8	51.3	55.9	59.2	60.0	52.9	44.6	35.2	23.9	

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-3 AIRCRAFT																			
ENG. J57-P-10																			
GROUND RUNUP																			
EST. F-109 +0.208																			
OPERATION:																			
MILITARY POWER, A-3																			
SINGLE ENGINE, 97% RPM																			
DEFLECTED FLOW																			
EST. F-109 +0.208																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = .2 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 76-513-001																			
AIRCRAFT CODE 513																			
OPERATION CODE 01004																			
PROFILE VERSION A																			
02 JUN 76																			
PAGE F1																			
ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
(FEET)																			
200	100.4	100.9	100.4	102.7	102.2	102.9	105.7	108.0	110.9	112.9	113.2	115.9	118.9	120.3	121.6	114.2	107.5	100.9	94.2
250	98.2	98.7	98.3	100.6	100.1	100.8	103.5	105.9	108.7	110.7	111.0	113.8	116.8	118.3	119.6	112.1	105.5	98.8	92.1
315	96.1	96.5	96.1	98.4	97.9	98.6	101.3	103.7	106.5	108.5	108.9	111.7	114.7	116.2	117.5	110.1	103.4	96.7	90.1
400	93.9	94.2	93.8	96.2	95.7	96.4	99.1	101.4	104.2	106.3	106.6	109.5	112.6	114.1	115.4	107.9	101.3	94.6	87.9
500	91.6	91.9	91.6	94.0	93.5	94.1	96.8	99.1	101.9	103.9	104.4	107.3	110.4	111.9	113.2	105.8	99.1	92.4	85.8
630	89.3	89.6	89.2	91.7	91.2	91.8	94.4	96.7	99.5	101.6	102.1	105.0	108.2	109.7	111.0	103.5	96.8	90.2	83.5
800	87.0	87.1	86.8	89.4	88.8	89.5	92.0	94.3	97.1	99.1	99.7	102.7	105.9	107.4	108.7	101.2	94.5	87.9	81.2
1000	84.5	84.6	84.3	87.0	86.4	87.0	89.5	91.8	94.6	96.6	97.3	100.4	103.6	105.1	106.4	98.8	92.1	85.5	78.8
1250	82.0	82.0	81.7	84.4	83.8	84.5	86.9	89.2	92.0	94.0	94.8	97.9	101.2	102.6	103.8	96.2	89.5	82.9	76.2
1600	79.4	79.3	79.0	81.9	81.2	81.9	84.2	86.5	89.3	91.3	92.2	95.4	98.7	100.1	101.2	93.5	86.8	80.1	73.5
2000	76.7	76.4	76.2	79.2	78.5	79.2	81.4	83.7	86.4	88.5	89.6	92.8	96.1	97.5	98.5	90.7	84.0	77.3	70.7
2500	73.6	73.2	73.1	76.2	75.5	76.2	78.4	80.6	83.4	85.4	86.6	89.8	93.1	94.4	95.4	87.4	80.7	74.0	67.4
3150	70.2	69.7	69.7	72.9	72.2	73.0	75.1	77.3	80.1	82.1	83.4	86.6	89.8	91.1	92.1	83.8	77.1	70.4	63.8
4000	66.4	65.8	65.9	69.3	68.6	69.4	71.5	73.7	76.4	78.5	79.8	83.0	86.2	87.3	88.3	79.8	73.1	66.5	59.8
5000	62.2	61.5	61.7	65.3	64.6	65.3	67.4	69.6	72.4	74.5	75.8	78.9	82.1	83.2	84.1	75.4	68.7	62.1	55.4
6300	57.7	57.0	57.3	60.9	60.2	60.9	63.0	65.2	68.0	70.1	71.4	74.6	77.8	78.8	79.7	70.9	64.2	57.5	50.9
8000	53.8	53.0	53.3	56.9	56.2	57.0	59.0	61.1	63.8	65.9	67.4	70.7	73.9	75.1	76.0	67.2	60.6	53.9	47.2
10000	49.7	48.8	49.1	52.6	51.8	52.6	54.5	56.6	59.2	61.3	63.1	66.4	69.7	71.1	71.9	63.4	56.7	50.0	43.4
12500	45.1	44.2	44.5	48.0	47.1	47.9	49.7	51.8	54.3	56.4	58.3	61.7	65.1	66.7	67.6	59.2	52.5	45.8	39.2
16000	40.2	39.3	39.5	42.8	42.0	42.8	44.4	46.5	48.9	51.0	53.2	56.6	60.1	62.0	62.8	54.7	48.0	41.4	34.7
20000	34.8	33.9	34.0	37.2	36.3	37.1	38.7	40.7	43.1	45.2	47.4	51.0	54.6	56.8	57.7	49.9	43.2	36.6	29.9
25000	29.0	28.0	28.0	31.1	30.2	31.0	32.4	34.3	36.7	38.8	41.2	44.9	48.7	51.2	52.1	44.8	38.1	31.5	24.8
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(A-3 AIRCRAFT)																			
(ENG. J57-P-10)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(MILITARY POWER, A-3)																			
(SINGLE ENGINE, 97% RPM)																			
(DEFLECTED FLOW)																			
(EST. F-100 +0.208)																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = .2 DB)																			
IDENTIFICATION:																			
(OMEGA 8-2)																			
(TEST 76-513-001)																			
(RUN 03)																			
(AIRCRAFT CODE 513)																			
(OPERATION CODE 01004)																			
(PROFILE VERSION A)																			
(02 JUN 76)																			
(PAGE 61)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
DISTANCE (FEET)																			
200	101.6	102.3	101.5	102.7	102.2	102.9	105.7	108.0	110.9	112.9	113.7	115.9	118.9	120.3	121.6	114.2	107.5	100.9	94.2
250	99.5	100.1	99.4	100.6	100.1	100.8	103.5	105.9	108.7	110.7	111.6	113.8	116.8	118.3	119.6	112.1	105.5	98.8	92.1
315	97.3	97.9	97.2	98.4	97.9	98.6	101.3	103.7	106.5	108.5	109.4	111.7	114.7	116.2	117.5	110.1	103.4	96.7	90.1
400	95.1	95.7	94.9	96.2	95.7	96.4	99.1	101.4	104.2	106.3	107.2	109.5	112.6	114.1	115.4	107.9	101.3	94.6	87.9
500	92.9	93.4	92.6	94.0	93.5	94.1	96.8	99.1	101.9	103.9	104.9	107.3	110.4	111.9	113.2	105.8	99.1	92.4	85.8
630	90.6	91.0	90.3	91.7	91.2	91.8	94.4	96.7	99.5	101.6	102.6	105.0	108.2	109.7	111.0	103.5	96.8	90.2	83.5
800	88.2	88.6	87.9	89.4	88.8	89.5	92.0	94.3	97.1	99.1	100.3	102.7	105.9	107.4	108.7	101.2	94.5	87.9	81.2
1000	85.8	86.1	85.4	87.0	86.4	87.0	89.5	91.8	94.6	96.6	97.9	100.4	103.6	105.1	106.4	98.8	92.1	85.5	78.8
1250	83.3	83.5	82.8	84.4	83.8	84.5	86.9	89.2	92.0	94.0	95.4	97.9	101.2	102.6	103.8	96.2	89.5	82.9	76.2
1600	80.7	80.7	80.1	81.9	81.2	81.9	84.2	86.5	89.3	91.3	92.8	95.4	98.7	100.1	101.2	93.5	86.8	80.1	73.5
2000	78.0	77.9	77.3	79.2	78.5	79.2	81.4	83.7	86.4	88.5	90.1	92.8	96.1	97.5	98.5	90.7	84.0	77.3	70.7
2500	74.8	74.7	74.2	76.2	75.5	76.2	78.4	80.6	83.4	85.4	87.1	89.8	93.1	94.4	95.4	87.4	80.7	74.0	67.4
3150	71.4	71.2	70.8	72.9	72.2	73.0	75.1	77.3	80.1	82.1	83.9	86.6	89.8	91.1	92.1	83.8	77.1	70.4	63.8
4000	67.4	67.0	66.8	69.3	68.6	69.4	71.5	73.7	76.4	78.5	80.2	83.0	86.2	87.3	88.3	79.8	73.1	66.5	59.8
5000	62.9	62.4	62.4	65.3	64.6	65.3	67.4	69.6	72.4	74.5	76.1	78.9	82.1	83.2	84.1	75.4	68.7	62.1	55.4
6300	58.2	57.6	57.7	60.9	60.2	60.9	63.0	65.2	68.0	70.1	71.6	74.6	77.8	78.8	79.7	70.9	64.2	57.5	50.9
8000	54.1	53.3	53.6	56.9	56.2	57.0	59.0	61.1	63.8	65.9	67.5	70.7	73.9	75.1	76.0	67.2	60.6	53.9	47.2
10000	49.7	48.8	49.1	52.6	51.8	52.6	54.5	56.6	59.2	61.3	63.1	66.4	69.7	71.1	71.9	63.4	56.7	50.0	43.4
12500	45.1	44.2	44.5	48.0	47.1	47.9	49.7	51.8	54.3	56.4	58.3	61.7	65.1	66.7	67.6	59.2	52.5	45.8	39.2
16000	40.2	39.3	39.5	42.8	42.0	42.8	44.4	46.5	48.9	51.0	53.2	56.6	60.1	62.0	62.8	54.7	48.0	41.4	34.7
20000	34.8	33.9	34.0	37.2	36.3	37.1	38.7	40.7	43.1	45.2	47.4	51.0	54.6	56.8	57.7	49.9	43.2	36.6	29.9
25000	29.0	28.0	28.0	31.1	30.2	31.0	32.4	34.3	36.7	38.8	41.2	44.9	48.7	51.2	52.1	44.8	38.1	31.5	24.8
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE# NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

A-3 AIRCRAFT

ENG. J57-P-10

GROUND RUNUP

OPERATION:

MILITARY POWER, A-3

SINGLE ENGINE, 97% RPM

DEFLECTED FLOW

EST. F-100 +0.208

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = .2 DB

IDENTIFICATION:

OMEGA 8.2

TEST 76-513-001

RUN 03

AIRCRAFT CODE 513

OPERATION CODE 01004

PROFILE VERSION A

02 JUN 76

PAGE J1

	40	50	60	70	80	90	100	110	120	130	140
ANGLE IN DEGREES											
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

A-4 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 130
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

TAKEOFF	- 10% RPM, 2.4 EPR	. . . . .	. . . . .	52 - 60
CRUISE	- 8% RPM, 1.5 EPR	. . . . .	. . . . .	61 - 69
APPROACH	- 9% RPM, 1.8 EPR	. . . . .	. . . . .	70 - 78

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

22 JUL 77

AEROSPACE MEDICAL RESEARCH
LABORATORY
BASE, OHIO
UNRIGHT-PATTE[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION																									
AIRCRAFT:																									
(OPERATION:		METEOROLOGY:																							
(TAKEOFF POWER		TEMP = 59 F																							
(100 % RPM		REL HUMID = 70 %																							
(A-4		2.4 EPR																							
(		22 JUL 77																					
(		PAGE H1																					
(AIRSPEED = 250 KNOTS		DELIA N = 0.0 DB																							
SLANT		FREQUENCY BAND NUMBER																							
DISTANCE																									
((FEET)																									
(17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
(83	82	82	89	96	98	98	95	100	102	111	118	118	114	114	115	115	115	115	117	115	118	122	129	
(250	81	80	87	94	96	96	93	98	99	109	116	116	111	112	113	112	113	113	114	112	115	119	125	
(315	79	78	78	85	92	94	91	96	97	107	114	114	109	110	110	110	110	110	112	109	111	115	120	
(400	77	76	76	83	90	91	92	89	94	95	105	112	112	107	108	108	108	108	109	106	108	111	115	
(500	75	74	74	81	88	89	90	87	92	93	103	110	109	105	106	106	105	105	105	103	104	106	109	
(630	73	72	72	78	86	87	88	85	90	91	101	108	107	103	103	103	102	102	102	99	99	101	101	
(800	71	70	70	76	84	85	86	83	88	89	98	106	105	100	101	101	100	99	98	95	94	94	93	
(1000	69	68	68	74	82	83	84	81	86	87	96	103	102	98	98	98	97	96	95	94	90	88	86	83
(1250	67	66	66	72	79	81	82	79	83	85	94	101	100	95	96	95	94	93	91	89	85	81	77	70
(1600	65	64	64	70	77	79	79	77	81	82	91	99	97	93	93	92	90	89	86	83	78	73	66	55
(2000	63	62	62	68	75	77	77	74	79	80	89	96	95	90	89	88	86	84	81	76	71	64	53	36
(2500	61	60	60	66	73	75	75	72	77	78	86	93	92	87	86	85	82	79	75	69	62	52	37	14
(3150	59	58	58	64	71	73	73	70	74	75	84	90	89	83	82	80	77	73	67	59	51	37	17	
(4000	56	56	56	62	69	70	70	67	72	72	81	87	85	79	78	75	71	66	59	48	38	20		
(5000	54	54	53	60	66	68	68	65	69	69	78	84	81	75	73	70	65	58	48	34	23			
(6300	52	52	51	57	64	65	65	62	66	66	74	80	77	70	68	63	57	48	36	18	3			
(8000	50	49	49	55	62	63	63	59	63	63	71	76	72	65	61	55	48	37	21					
(10000	48	47	47	53	59	60	60	56	60	59	66	71	57	58	54	46	36	22	2					
(12500	46	45	44	50	56	57	57	53	56	55	62	66	60	51	44	35	22	5						
(16000	43	42	42	47	54	54	53	49	52	50	56	59	53	41	33	21	6							
(20000	41	40	39	44	50	51	50	45	47	45	50	51	44	30	20	5								
(25000	38	37	36	41	47	47	45	40	41	38	42	42	33	17	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
GROUND-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
(OPERATION:) METEOROLOGY:																								
(TAKEOFF POWER)) TEMP																								
(100 % RPM 2.4 EPR)) REL HUMID = 70 %																								
()) 22 JUL 77																								
(AIRSPEED = 250 KNOTS) DELTA N = 0.0 DB																								
PAGE L1																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	77	77	84	91	93	93	90	95	97	106	113	113	109	109	110	110	110	110	112	110	113	117	124
250	76	75	75	82	89	91	91	88	93	94	104	111	111	106	107	108	107	108	108	109	107	110	114	120
315	74	73	73	80	87	89	89	86	91	92	102	109	109	104	105	105	105	105	105	107	104	106	110	115
400	72	71	71	78	85	86	87	84	89	90	100	107	107	107	102	103	103	103	103	104	101	103	106	110
500	70	69	69	76	83	84	84	82	87	88	98	105	104	100	101	101	100	100	100	100	98	99	101	104
630	68	67	67	73	80	81	82	79	85	86	96	103	102	98	98	98	98	97	97	97	94	94	96	96
800	66	65	65	71	77	78	79	77	83	84	93	101	100	95	96	96	95	94	93	93	90	89	89	88
1000	64	63	63	68	74	76	76	74	80	82	91	98	97	93	93	93	92	91	90	89	85	83	81	78
1250	62	61	60	65	71	72	73	70	77	80	89	96	95	90	91	90	89	88	86	84	80	76	72	65
1600	60	58	57	62	68	69	69	67	74	77	86	94	92	88	88	87	85	84	81	78	73	68	61	50
2000	57	54	53	58	64	65	65	63	70	75	84	91	90	85	84	83	81	79	76	71	66	59	48	31
2500	53	50	49	53	59	61	61	58	66	71	81	88	87	82	81	80	77	74	70	64	57	47	32	9
3150	49	46	44	49	54	56	56	53	62	67	78	85	84	78	77	75	72	68	62	54	46	32	12	
4000	44	41	39	43	49	50	50	47	56	62	74	82	80	74	73	70	66	61	54	43	33	15		
5000	39	36	34	38	44	45	45	42	50	56	69	77	76	70	68	65	60	53	43	29	18			
6300	34	32	29	33	39	40	40	37	44	50	64	72	71	65	63	58	52	43	31	13				
8000	32	29	27	31	37	37	37	34	41	47	61	68	66	60	56	50	43	32	16					
10000	30	27	25	29	34	35	34	31	38	43	56	63	61	53	49	41	31	17						
12500	28	25	22	26	31	32	31	28	34	39	52	58	54	46	39	30	17							
16000	25	22	20	23	29	29	28	24	30	34	46	51	47	36	28	16	1							
20000	23	20	17	20	25	25	24	20	25	29	40	43	38	25	15									
25000	20	17	14	17	22	22	20	15	19	22	32	34	27	12										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUM. R OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

[illegible]

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	10	20	30	40	50	60	70	80	
	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB								
50	MEAN
63	57.0
80	55.9
100	52.6
125	58.6
160	66.3
200	70.9
250	67.7
315	65.7
400	73.2
500	71.6
630	73.2
800	76.5
1000	75.0
1250	75.5
1600	75.9
2000	76.5
2500	76.3
3150	75.0
4000	74.0
5000	73.1
6300	66.8
8000	61.0
10000	53.9
	39.0
	4.6
	SD
	3.6
	5.6
	5.4
	2.1
	3.9
	1.7
	3.4
	2.3
	1.9
	2.3
	2.7
	2.8
	1.2
	2.0
	2.3
	1.4
	2.0
	1.5
	2.3
	3.1
	2.0
	2.0
	2.4
	4.6

A-4 CRUISE POWER 83 % RPM 1.5 EPR
 AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 98.4 PNDB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 97.6 PNDB
 NO. OF RECORDS = 6 IDENT: 6.6-130-104-220777 ALT = 86.5 DBA
 AL = 85.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
(OPERATION:) METEOROLOGY:																									
(CRUISE POWER) TEMP = 59 F																									
(83 % RPM 1.5 EPR) REL HUMID = 70 %																									
()																									
(AIRSPEED = 300 KNOTS) DELTA N = 0.0 DB																									
() PAGE H2																									
SLANT DISTANCE (FEET)																									
FREQUENCY BAND NUMBER																									
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
71	70	67	73	80	85	82	80	88	86	88	91	90	91	92	93	94	94	94	96	91	89	88	83		
69	68	65	71	78	83	80	78	86	84	86	89	88	89	90	91	92	91	92	93	88	86	85	79		
315	67	66	63	69	76	81	78	76	84	82	84	87	86	87	88	89	89	89	90	85	83	81	75		
400	65	64	61	67	74	79	76	74	82	80	82	85	84	85	85	87	87	86	87	82	80	77	70		
500	63	62	59	65	72	77	74	72	79	78	80	83	82	83	83	84	84	84	84	79	76	73	64		
630	61	60	57	63	70	75	72	70	77	76	78	81	80	80	81	82	82	81	81	75	72	67	57		
800	59	58	55	61	68	73	70	68	75	74	75	79	77	78	78	79	79	78	77	71	67	61	49		
1000	57	56	53	59	66	71	68	66	73	72	73	76	75	76	76	77	76	75	74	73	67	61	54		
1250	55	54	51	57	64	69	66	64	71	69	71	74	73	73	73	74	73	72	70	68	62	54	45		
1600	53	52	48	54	62	67	64	61	69	67	69	72	70	70	70	71	70	68	66	63	55	47	35		
2000	51	50	46	52	60	65	61	59	67	65	66	69	67	67	67	67	66	64	61	57	48	37	22		
2500	49	48	44	50	58	62	59	57	64	62	64	67	65	64	64	64	62	59	55	49	40	26	7		
3150	47	46	42	48	56	60	57	55	62	60	61	64	62	61	60	59	57	53	48	40	30	13			
4000	45	44	40	46	54	58	55	52	59	57	58	61	58	57	56	55	52	46	40	30	18				
5000	43	41	38	44	51	56	52	50	57	54	55	57	55	53	52	49	45	39	30	17	3				
6300	41	39	36	42	49	53	50	47	54	51	52	54	50	49	46	43	38	29	18	1					
8000	38	37	33	39	47	51	47	44	51	48	48	50	46	43	40	36	29	18	4						
10000	36	35	31	37	44	48	44	41	48	44	44	45	40	37	33	27	18	5							
12500	34	32	29	34	41	45	41	38	44	40	39	40	34	30	24	16	5								
16000	32	30	26	32	39	42	38	34	40	36	34	34	27	21	14	3									
20000	29	28	24	29	36	39	34	30	35	30	28	26	18	11	1										
25000	27	25	21	26	32	35	30	26	30	24	21	18	8												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

200	(	A-4	CRUISE POWER	83 % RPM	1.5 EPR	300 KNOTS	70 %	0.0 DB	6	5.6-130-104-220777-A	A+	X	*P	2500
250	(.
315	(.
400	(.
500	(.
630	(.
800	(.
1000	(.
1250	(.
1600	(.
2000	(.
2500	(.
3150	(.
4000	(.
5000	(.
6300	(.
8000	(.
10000	(.
12500	(.
16000	(.
20000	(.
25000	(.

	40	50	60	70	80	90	100	110	120
200	(((((((((
	A-4	83 % RPM	CRUISE POWER						
250	(((((((((
	AIR SPEED = 300 KNOTS	1.5 EPR					A+		*P
315	(((((((((
	TEMP = 59 F	REL HUMID = 70 %					A+		*P.
400	(((((((((
	DELTA N = 0.0 DB						A+		*P
500	(((((((((
	NO. OF RECORDS: 6								
	IDENT: 6.6-130-104-220777-A								
630	(((((((((
							A+		*P
800	(((((((((
							A+		*P
1000	(((((((((
							A+		*P.
1250	(((((((((
							A+		*P
1600	(((((((((
							X		*P
2000	(((((((((
							A+		*P
2500	(((((((((
							A+		*P
3150	(((((((((
							A+		*P
4000	(((((((((
							A+		*P
5000	(((((((((
							A+		*P
6300	(((((((((
							A+		X
8000	(((((((((
							X		X
10000	(((((((((
							X		X
12500	(((((((((
16000	(((((((((
20000	(((((((((
25000	(((((((((

GROUND TO GROUND

P = PNL

* = PNL

+ = ALT

A = AL

NOISE LEVEL TN NR

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																																		IDENTIFICATION:		
AIR-TO-GROUND PROPAGATION																																		OMEGA 6.6		
AIRCRAFT:																																		A/C CODE: 130		
A-4																																		OPS CODE: 105		
(PROFILE VER: A		
(22 JUL 77		
(PAGE H3		
FREQUENCY BAND NUMBER																																				
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
200	80	79	81	90	96	99	97	98	101	100	102	101	101	101	100	99	99	99	98	98	95	93	92	88												
250	78	77	79	88	94	97	95	96	99	98	100	99	99	99	98	97	97	97	95	95	93	91	89	84												
315	76	75	77	86	92	95	93	94	97	96	98	97	97	97	96	95	95	95	93	93	90	88	85	80												
400	74	73	75	84	90	93	91	92	95	94	96	95	95	95	94	93	93	93	91	90	87	85	82	76												
500	72	71	73	82	88	91	89	90	93	92	94	93	93	93	92	91	90	90	88	87	85	81	78	71												
630	70	69	71	80	86	89	87	88	91	89	91	91	90	90	90	88	88	88	85	84	81	78	74	66												
800	68	67	69	78	84	87	85	86	88	87	89	89	88	88	87	86	85	85	82	81	78	74	69	59												
1000	66	65	67	76	82	85	83	84	86	85	87	86	86	85	85	84	83	82	79	78	74	69	63	52												
1250	64	63	65	74	80	83	81	82	84	83	85	84	84	83	82	81	80	79	76	74	70	64	56	42												
1600	62	61	63	72	78	80	79	80	82	81	83	82	81	81	80	78	77	76	72	69	65	57	48	32												
2000	60	59	61	70	76	78	77	78	80	79	80	80	79	78	77	75	74	72	68	64	59	50	38	18												
2500	58	57	59	68	74	76	74	75	78	76	78	77	76	75	74	72	70	68	63	58	52	41	26	2												
3150	56	55	57	66	72	74	72	73	75	74	76	74	73	72	71	68	66	63	57	51	44	31	12													
4000	54	53	55	64	69	72	70	71	73	72	73	72	71	69	67	64	62	58	51	43	35	19														
5000	52	51	53	61	67	70	68	69	71	69	70	69	67	66	63	60	56	52	43	33	24	3														
6300	50	49	51	59	65	67	65	66	68	66	67	66	64	62	59	55	50	45	34	21	10															
8000	48	47	48	57	63	65	63	63	65	63	64	62	60	57	54	49	43	36	23	6																
10000	46	44	46	55	60	62	60	61	62	60	61	58	55	52	48	42	35	26	10																	
12500	43	42	44	52	58	60	57	58	59	56	57	54	50	46	41	34	25	13																		
16000	41	40	42	50	55	57	54	55	56	53	52	49	44	40	33	24	13																			
20000	39	38	39	47	53	54	51	51	52	48	47	43	38	32	23	12																				
25000	37	35	37	45	50	51	48	47	47	43	41	36	30	22	12																					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
A-4	110.6	110.6	123.6	123.6	110.8	111.8	115.0	OMEGA	6.6
	108.4	108.4	121.3	121.3	109.7	110.6	113.8		
	106.2	106.2	119.0	119.0	108.5	109.4	112.5		
	104.0	104.0	116.7	116.7	107.3	108.2	111.2		
	101.7	101.7	114.3	114.3	106.0	106.9	109.8		
	99.4	99.4	111.8	111.8	104.6	105.6	108.2		
	97.0	97.0	109.1	109.1	103.2	104.2	106.6		
	94.5	94.5	106.4	106.4	101.8	102.7	104.9		
	92.0	92.0	103.5	103.5	100.3	101.2	102.9		
	89.4	89.4	100.4	100.4	98.6	99.6	100.9		
	86.7	86.7	97.1	97.1	96.9	97.9	98.6		
	83.9	83.9	93.7	93.7	95.1	96.0	96.2		
	81.0	81.0	90.6	90.6	93.2	94.1	94.1		
	77.9	77.9	87.3	87.3	91.2	91.9	91.6		
	74.7	74.7	83.9	83.9	89.0	89.5	89.0		
	71.4	71.4	80.4	80.4	86.6	87.0	86.3		
	67.8	67.8	76.6	76.6	84.1	84.3	83.3		
	64.1	64.1	72.7	72.7	81.4	81.4	80.2		
	60.2	60.2	68.7	68.7	78.4	78.4	77.2		
	56.0	56.0	64.4	64.4	75.3	75.3	73.9		
	51.6	51.6	59.8	59.8	71.9	71.9	70.3		
	47.0	47.0	54.7	54.7	68.2	68.2	66.3		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 130	
A-4										OPS CODE: 105	
										PROFILE VER: A	
										22 JUL 77	
										PAGE M3	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	105.6	105.6	118.6	118.6	105.8	106.8	110.0				
250	103.4	103.4	116.3	116.3	104.7	105.6	108.8				
315	101.2	101.2	114.0	114.0	103.5	104.4	107.5				
400	99.0	99.0	111.7	111.7	102.2	103.2	106.2				
500	96.7	96.7	109.2	109.2	101.0	101.9	104.7				
630	94.4	94.4	106.7	106.7	99.6	100.5	103.1				
800	92.0	92.0	104.0	104.0	98.2	99.1	101.4				
1000	89.5	89.5	101.1	101.1	96.7	97.7	99.6				
1250	86.9	86.9	98.0	98.0	95.2	96.1	97.5				
1600	84.2	84.2	94.7	94.7	93.5	94.4	95.2				
2000	81.4	81.4	91.1	91.1	91.7	92.6	92.6				
2500	78.5	78.5	87.2	87.2	89.7	90.6	89.7				
3150	75.2	75.2	83.2	83.2	87.5	88.4	86.7				
4000	71.6	71.6	78.9	78.9	84.9	85.6	83.2				
5000	67.6	67.6	74.2	74.2	81.8	82.4	79.3				
6300	63.2	63.2	69.2	69.2	78.5	78.8	75.1				
8000	59.1	59.1	64.7	64.7	75.3	75.5	71.5				
10000	54.6	54.6	60.3	60.3	71.9	71.9	67.8				
12500	49.7	49.7	55.3	55.3	68.0	68.0	63.9				
16000	44.4	44.4	49.7	49.7	63.6	63.6	59.3				
20000	38.5	38.5	43.3	43.3	58.8	58.8	53.8				
25000	32.1	32.1	35.3	35.3	53.4	53.4	46.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	A-4	APPROACH POWER	ST-E					
250	(	93 % RPM	1.8 EPR	ST E.					
315	(	AIRSPEED = 150 KNOTS							
400	(	TEMP = 59 F	REL HUMID = 70 %	ST E.					
500	(	DELTA N = 0.0 DB		ST E.					
	(	NO. OF RECORDS: 6							
	(	IDENT: 6.6-130-105-220777-A		ST E.					
S 630	(	.	.	ST E					
L A 800	(	.	.	ST.E					
N T 1000	(	.	.	ST E.					
D 1250	(	.	.	STE					
I S 1600	(	.	.	STE					
T A 2000	(	.	.	SX.					
N C 2500	(	.	.	XT					
E 3150	(	.	.	XT					
I N 4000	(	.	E ST	.					
F 5000	(	.	E. X	.					
E E 6300	(	.	E ST.	.					
T 8000	(	.	E ST	.					
10000	(	.	E. X	GROUND TO GROUND					
12500	(	.	E X	E = EPNL					
16000	(	.	E. X	T = SELT					
20000	(	.	E. X	S = SEL					
25000	(	E	X						
		30	40	50	60	70	80	90	100	110

[illegible]

NOISE PRODUCED ON THE GROUND BY

A-4 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-001
AIRCRAFT CODE: 130
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

PAGE

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

26 MAY 76

AEROSPACE MEDICAL RESEARCH LABORATORY, OHIO
AERIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-88																
GROUND RUNUP																
OPERATION:																
(IDLE, 57% RPM																
(SINGLE ENGINE																
METEOROLOGY:																
(TEMP = 59 F																
(BAR PRESS = 29.92 IN HG																
(REL HUMID = 70 %																
(DELTA N = 0.0 DB																
AIRCRAFT CODE 130																
OPERATION CODE 01013																
PROFILE VERSION A																
26 MAY 76																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
50	60	60	59	60	61	61	61	60	60	62	63	64	66	68	69	62 56 49
63	60	58	59	59	61	60	58	59	59	61	62	64	66	67	69	62 56 49
80	60	61	59	61	62	61	60	60	61	63	64	65	67	68	71	65 58 51
100	64	66	69	73	73	71	70	63	66	71	72	69	72	69	71	64 58 51
125	66	67	64	65	66	67	68	66	68	69	69	71	70	69	72	65 58 52
160	66	65	67	66	66	65	65	64	65	67	68	70	71	69	72	65 59 52
200	66	67	67	67	68	65	64	63	62	65	68	72	72	70	70	63 57 50
250	67	68	70	68	67	63	64	65	64	66	69	70	73	73	69	62 56 49
315	68	69	69	67	66	63	63	63	66	70	71	74	75	74	70	63 56 50
400	67	69	70	67	64	61	62	63	65	69	71	76	77	74	72	65 59 52
500	67	70	69	67	65	61	62	64	66	70	72	75	77	74	73	66 60 53
630	73	74	73	70	66	63	65	66	68	71	73	74	75	72	70	63 57 50
800	74	76	75	71	68	66	67	67	69	71	73	73	73	67	65	58 51 45
1000	73	74	71	71	70	66	67	67	69	70	70	73	72	67	64	57 51 44
1250	75	75	73	71	70	68	68	67	68	67	68	71	69	65	61	55 48 41
1600	76	76	78	77	76	70	71	72	67	68	68	70	68	65	64	57 50 44
2000	76	76	78	77	76	72	70	69	64	67	67	69	67	64	64	57 51 44
2500	86	83	84	86	88	83	79	75	72	70	71	70	67	68	67	54 47
3150	84	82	83	83	83	79	75	71	66	69	69	69	67	68	66	60 53 46
4000	80	78	79	80	80	78	75	71	65	69	70	70	68	69	67	61 54 47
5000	77	77	81	79	77	74	70	68	58	62	69	71	68	67	68	61 54 48
6300	76	76	80	77	75	72	68	65	56	60	67	68	71	68	66	61 55 48
8000	74	74	76	74	72	71	68	65	55	60	65	67	68	67	64	58 51 44
10000	70	69	71	70	68	66	63	59	48	57	62	65	64	61	61	54 48 41
OVERALL	91	89	90	91	87	84	82	78	79	82	83	85	85	83	83	76 69 63

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(A-4 AIRCRAFT																				
(ENG. J52-P-88																				
(GROUND RUNUP																				
(OPERATION:																				
(IDLE, 57% RPM																				
(SINGLE ENGINE																				
(METEOROLOGY:																				
(TEMP = 59 F																				
(BAR PRESS =29.92 IN HG																				
(REL HUMID = 70 %																				
(DELTA N = 0.0 DB																				
IDENTIFICATION:																				
(OMEGA 8.2																				
(TEST 74-004-001																				
(RUN 01																				
(AIRCRAFT CODE 130																				
(OPERATION CODE 01013																				
(PROFILE VERSION A																				
(26 MAY 76																				
(PAGE D1																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	107.3	105.8	106.7	107.1	107.8	104.0	100.8	97.8	94.1	94.4	96.7	97.3	98.6	97.5	96.3	95.5	88.7	81.9	75.0	
250	105.0	103.5	104.4	104.8	105.5	101.7	98.5	95.5	91.8	92.1	94.5	95.0	96.2	95.1	94.0	93.1	86.3	79.5	72.6	
315	102.7	101.2	102.0	102.5	103.2	99.3	96.1	93.2	89.5	89.8	92.1	92.6	93.8	92.7	91.6	90.7	83.9	77.0	70.1	
400	100.2	98.8	99.6	100.0	100.8	96.9	93.7	90.8	87.1	87.4	89.7	90.1	91.3	90.3	89.1	88.2	81.3	74.5	67.5	
500	97.7	96.2	97.0	97.5	98.3	94.4	91.2	88.2	84.7	84.9	87.2	87.5	88.6	87.7	86.5	85.6	78.7	71.7	64.7	
630	95.1	93.6	94.3	94.8	95.6	91.7	88.5	85.6	82.0	82.3	84.5	84.8	86.0	85.0	83.7	82.7	75.8	68.9	61.8	
800	92.3	90.8	91.5	92.0	92.8	88.9	85.7	82.8	79.3	79.5	81.7	82.0	83.2	82.4	80.9	79.9	73.0	66.0	58.8	
1000	89.3	87.8	88.5	89.0	89.8	85.9	82.7	79.8	76.4	76.5	78.8	79.0	80.2	79.7	77.8	76.9	70.0	62.9	55.6	
1250	86.1	84.6	85.3	85.8	86.6	82.6	79.5	76.6	73.3	73.4	75.6	75.8	77.0	76.8	74.6	73.7	66.7	59.5	51.9	
1600	82.6	81.1	81.7	82.3	83.1	79.1	76.0	73.2	69.8	70.0	72.1	72.4	73.8	73.8	71.3	70.3	63.2	55.9	47.9	
2000	78.8	77.4	78.0	78.5	79.3	75.3	72.2	69.3	66.1	66.2	68.4	68.6	70.5	70.6	68.0	66.9	59.8	52.2	43.6	
2500	74.7	73.3	73.8	74.3	75.1	71.0	68.0	65.2	62.0	62.2	64.3	64.5	66.8	67.1	64.4	63.3	55.9	48.0	39.0	
3150	70.0	68.7	69.1	69.6	70.4	66.3	63.2	60.5	57.4	57.5	59.7	60.5	62.7	63.0	60.2	58.9	51.4	42.7	33.3	
4000	64.7	63.4	63.8	64.2	65.0	60.8	57.7	55.0	51.8	52.1	54.6	55.9	58.2	58.5	55.4	54.0	45.8	37.1	25.0	
5000	58.8	57.6	57.9	58.2	58.8	54.4	51.4	49.2	45.3	45.6	49.2	50.6	53.0	53.3	50.1	48.4	39.9	30.1	14.9	
6300	51.9	50.7	51.1	51.5	51.6	47.0	43.8	42.1	37.6	39.7	43.1	44.6	47.3	47.9	44.2	42.3	33.1	19.0	4.7	
8000	43.6	44.5	44.1	42.7	43.2	37.9	35.0	34.6	30.6	33.8	37.8	39.4	42.3	43.1	39.1	37.2	26.5	13.3		
10000	36.5	37.9	37.1	33.8	32.0	25.9	24.7	24.6	19.6	25.7	31.1	33.0	36.8	37.9	33.4	30.9	19.8	7.6		
12500	27.7	30.1	28.8	22.3	17.2	8.3	10.4	12.1	7.9	16.4	23.3	26.1	30.3	32.1	26.9	24.7	10.5	1.9		
16000	15.1	18.2	16.9	9.0	2.4					7.0	12.1	14.7	22.7	25.1	18.9	15.8	1.2			
20000	2.5	6.3	4.9								.9	3.4	10.1	15.5	7.5	7.0				
25000																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-88																
GROUND RUNUP																
OPERATION:																
IDLE, 57% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
METEOROLOGY:																
AIRCRAFT CODE 130																
OPERATION CODE 01013																
PROFILE VERSION A																
26 MAY 76																
PAGE E1																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-001																
RUN 01																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	109.3	107.3	107.3	107.8	109.0	110.5	106.5	102.9	99.3	96.6	96.1	97.5	98.2	98.6	97.5	96.3
250	107.0	105.0	105.5	106.8	108.3	104.3	100.6	97.1	94.3	93.8	95.3	95.9	96.2	95.1	94.0	93.1
315	104.6	102.6	103.1	104.4	105.9	101.9	98.3	94.7	92.0	91.5	92.9	93.4	93.8	92.7	91.6	90.7
400	102.2	100.2	100.7	102.0	103.5	99.5	95.9	92.3	89.6	89.1	90.5	90.9	91.3	90.3	89.1	88.2
500	99.7	97.7	98.2	99.5	101.0	97.0	93.3	89.8	87.2	86.6	88.0	88.4	88.6	87.7	86.5	85.6
630	97.0	95.0	95.5	96.8	98.4	94.3	90.7	87.1	84.5	83.9	85.3	85.7	86.0	85.0	83.7	82.7
800	94.2	92.2	92.6	94.0	95.5	91.5	87.9	84.3	81.8	81.1	82.5	82.9	83.2	82.4	80.9	79.9
1000	91.3	89.3	89.6	91.0	92.6	88.5	84.9	81.4	78.9	78.2	79.6	79.9	80.2	79.7	77.8	76.9
1250	88.1	86.0	86.4	87.8	89.4	85.2	81.6	78.2	75.8	75.1	76.4	76.7	77.0	76.8	74.6	73.7
1600	84.6	82.6	82.9	84.2	85.9	81.7	78.1	74.7	72.3	71.6	72.9	73.3	73.8	73.8	71.3	70.3
2000	80.8	78.8	79.1	80.5	82.1	77.9	74.3	70.9	68.6	67.9	69.2	69.5	70.5	70.6	68.0	66.9
2500	76.6	74.7	74.9	76.3	77.9	73.6	70.1	66.8	64.5	63.8	65.1	65.4	66.8	67.1	64.4	63.3
3150	72.0	70.1	70.2	71.6	73.2	68.8	65.4	62.1	59.9	59.2	60.5	61.4	62.7	63.0	60.2	58.9
4000	66.3	64.6	64.7	65.8	67.2	62.8	59.4	56.3	53.8	53.4	55.3	56.6	58.2	58.5	55.4	54.0
5000	60.0	58.4	58.6	59.4	60.5	55.9	52.7	50.1	46.8	46.6	49.7	51.1	53.0	53.3	50.1	48.4
6300	52.7	51.3	51.6	51.9	52.7	48.0	44.7	42.8	38.6	40.4	43.5	44.9	47.3	47.9	44.2	42.3
8000	44.0	44.8	44.3	43.1	43.7	38.5	35.4	34.9	31.1	34.2	37.9	39.6	42.3	43.1	39.1	37.2
10000	36.5	37.9	37.1	33.8	32.0	25.9	24.7	24.6	19.6	25.7	31.1	33.0	36.8	37.9	33.4	30.9
12500	27.7	30.1	28.8	22.3	17.2	8.3	10.4	12.1	7.9	16.4	23.3	26.1	30.3	32.1	26.9	24.7
16000	15.1	18.2	16.9	9.0	2.4					7.0	12.1	14.7	22.7	25.1	18.9	15.8
20000	2.5	6.3	4.9								.9	3.4	10.1	15.5	7.5	7.0
25000														5.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-8B																
GROUND RUNUP																
OPERATION:																
IDLE, 57% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-001																
RUN 01																
AIRCRAFT CODE 130																
OPERATION CODE 01013																
PROFILE VERSION A																
26 MAY 76																
PAGE F1																
ANGLE (DEGREES)																
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	93.6	92.0	93.1	93.3	94.0	90.0	86.5	83.6	79.4	79.9	82.6	83.3	85.2	84.4	82.0	80.9
250	91.3	89.7	90.8	91.0	91.7	87.7	84.3	81.4	77.2	77.7	80.3	81.1	83.0	82.3	79.8	78.7
315	89.0	87.4	88.5	88.6	89.4	85.4	81.9	79.1	75.0	75.5	78.1	78.8	80.7	80.1	77.6	76.4
400	86.6	85.0	86.0	86.2	87.0	83.0	79.5	76.7	72.7	73.2	75.7	76.5	78.4	77.9	75.3	74.0
500	84.1	82.5	83.4	83.7	84.5	80.4	77.0	74.2	70.3	70.8	73.3	74.1	76.1	75.6	73.0	71.6
630	81.5	79.9	80.8	81.0	81.9	77.8	74.4	71.7	67.9	68.4	70.9	71.6	73.7	73.3	70.6	69.1
800	78.7	77.2	78.0	78.3	79.2	75.0	71.7	69.1	65.3	65.9	68.4	69.1	71.3	71.0	68.1	66.6
1000	75.8	74.3	75.1	75.3	76.2	72.1	68.8	66.3	62.7	63.3	65.8	66.6	68.8	68.6	65.6	64.1
1250	72.7	71.4	72.0	72.2	73.1	68.9	65.7	63.4	59.9	60.6	63.1	63.9	66.2	66.1	63.0	61.4
1600	69.4	68.2	68.7	68.9	69.8	65.5	62.5	60.3	56.9	57.8	60.3	61.2	63.6	63.6	60.4	58.7
2000	65.9	64.9	65.3	65.3	66.1	61.9	59.0	57.1	53.7	54.9	57.4	58.4	60.9	61.0	57.7	56.0
2500	62.1	61.4	61.6	61.4	62.1	57.9	55.2	53.7	50.4	51.7	54.3	55.4	58.0	58.1	54.6	52.9
3150	58.0	57.6	57.7	57.2	57.7	53.5	51.2	50.0	46.8	48.4	51.0	52.1	54.7	54.8	51.2	49.5
4000	53.7	53.6	53.5	52.6	52.8	48.7	46.8	46.1	42.8	44.7	47.3	48.5	51.1	51.2	47.5	45.7
5000	48.9	49.2	48.9	47.7	47.4	43.5	42.1	41.7	38.5	40.6	43.2	44.5	47.1	47.1	43.2	41.4
6300	43.9	44.6	43.9	42.4	41.6	37.9	37.1	37.0	33.8	36.2	38.8	40.1	42.7	42.8	38.8	37.0
8000	39.0	40.0	39.1	37.1	35.7	32.3	32.1	32.3	29.4	32.0	34.8	36.1	38.8	39.0	35.1	33.3
10000	33.9	35.1	34.1	31.7	29.8	26.7	26.9	27.4	24.7	27.6	30.4	31.8	34.5	34.9	31.1	29.4
12500	28.6	29.9	28.8	26.1	23.9	21.0	21.4	22.1	19.6	22.7	25.7	27.1	29.8	30.4	26.7	25.2
16000	22.7	24.1	23.1	20.2	17.7	15.0	15.5	16.4	14.2	17.4	20.5	21.9	24.7	25.5	22.0	20.5
20000	16.3	17.7	16.8	13.8	11.3	8.6	9.2	10.2	8.2	11.6	14.7	16.2	19.1	20.1	16.7	15.3
25000	9.2	10.7	9.9	7.0	4.5	2.0	2.6	3.6	1.8	5.1	8.4	10.0	12.9	14.0	10.9	9.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(A-4 AIRCRAFT										) OMEGA 8+2									
(ENG. J52-P-88										) TEST 74-004-001									
(GROUND RUNUP										) RUN 01									
(OPERATION:										(METEOROLOGY:									
(IDLE, 57% RPM										) TEMP = 59 F									
(SINGLE ENGINE										) BAR PRESS = 29.92 IN HG									
(										) REL HUMID = 70 %									
(										) DELTA N = 0.0 DB									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	>180
200	95.6	93.4	94.3	95.2	96.7	92.6	88.7	85.2	81.9	81.6	83.4	84.2	85.2	84.4	82.0	80.9	74.2	67.6	60.9
250	93.3	91.1	92.0	92.9	94.5	90.3	86.4	82.9	79.7	79.4	81.1	81.9	83.0	82.3	79.8	78.7	72.0	65.3	58.7
315	91.0	88.8	89.6	90.6	92.2	88.0	84.1	80.6	77.5	77.1	78.9	79.7	80.7	80.1	77.6	76.4	69.7	63.0	56.4
400	88.6	86.4	87.1	88.2	89.8	85.5	81.7	78.2	75.2	74.8	76.5	77.3	78.4	77.9	75.3	74.0	67.3	60.7	54.0
500	86.1	83.9	84.6	85.6	87.3	83.0	79.2	75.8	72.8	72.5	74.1	74.9	76.1	75.6	73.0	71.6	64.9	58.3	51.6
630	83.4	81.3	81.9	83.0	84.7	80.4	76.6	73.2	70.4	70.1	71.7	72.5	73.7	73.3	70.6	69.1	62.5	55.8	49.1
800	80.7	78.6	79.1	80.2	81.9	77.6	73.8	70.6	67.8	67.6	69.2	70.0	71.3	71.0	68.1	66.6	60.0	53.3	46.6
1000	77.8	75.8	76.2	77.3	79.0	74.7	70.9	67.8	65.2	65.0	66.6	67.5	68.8	68.6	65.6	64.1	57.4	50.7	44.1
1250	74.7	72.8	73.1	74.2	75.9	71.5	67.9	64.9	62.4	62.3	63.9	64.8	66.2	66.1	63.0	61.4	54.7	48.1	41.4
1500	71.4	69.7	69.9	70.9	72.5	68.1	64.6	61.9	59.4	59.5	61.1	62.1	63.6	63.6	60.4	58.7	52.0	45.4	38.7
2000	67.9	66.3	66.4	67.3	68.9	64.5	61.1	58.7	56.2	56.5	58.2	59.3	60.9	61.0	57.7	56.0	49.3	42.6	36.0
2500	64.1	62.8	62.7	63.4	64.8	60.5	57.4	55.2	52.9	53.4	55.1	56.3	58.0	58.1	54.6	52.9	46.3	39.6	32.9
3150	60.0	59.1	58.8	59.2	60.4	56.1	53.3	51.6	49.3	50.1	51.8	53.0	54.7	54.8	51.2	49.5	42.9	36.2	29.5
4000	55.2	54.8	54.4	54.8	55.0	50.8	48.5	47.3	44.8	46.1	48.0	49.2	51.1	51.2	47.5	45.7	39.0	32.4	25.7
5000	50.1	50.1	49.5	48.9	49.1	45.0	43.4	42.6	40.0	41.6	43.7	45.0	47.1	47.1	43.2	41.4	34.8	28.1	21.4
6300	44.7	45.1	44.4	43.1	42.7	38.9	38.0	37.6	34.8	36.8	39.2	40.5	42.7	42.8	38.8	37.0	30.3	23.7	17.0
8000	39.4	40.3	39.4	37.5	36.3	32.8	32.5	32.7	29.9	32.4	34.9	36.3	38.8	39.0	35.1	33.3	26.7	20.0	13.3
10000	33.9	35.1	34.1	31.7	29.8	26.7	26.9	27.4	24.7	27.6	30.4	31.8	34.5	34.9	31.1	29.4	22.8	16.1	9.4
12500	28.6	29.9	28.8	26.1	23.9	21.0	21.4	22.1	19.6	22.7	25.7	27.1	29.8	30.4	26.7	25.2	18.5	11.8	5.2
15000	22.7	24.1	23.1	20.2	17.7	15.0	15.5	16.4	14.2	17.4	20.5	21.9	24.7	25.5	22.0	20.5	13.8	7.1	.5
20000	16.3	17.7	16.8	13.8	11.3	8.6	9.2	10.2	8.2	11.6	14.7	16.2	19.1	20.1	16.7	15.3	8.6	2.0	
25000	9.2	10.7	9.9	7.0	4.5	2.0	2.6	3.6	1.8	5.1	8.4	10.0	12.9	14.0	10.9	9.5	2.9		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
) OMEGA 8.2
) TEST 74-004-001
) RUN 01

NOISE SOURCE/SUBJECT:
) AIRCRAFT CODE 130
) AIRCRAFT
) OPERATION: IDLE, 57% RPM
) SINGLE ENGINE
) ENG. J52-P-88
) PROFILE VERSION A
) GROUND RUNUP
) 26 MAY 76
) PAGE J1

METEOROLOGY:
) TEMP = 59 F
) BAR PRESS = 29.92 IN HG
) REL HUMID = 70 %
) DELTA N = 0.0 DB

P=PNLT A=AL T=ALT

	10	20	30	40	50	60	70	80	90	100	110
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-88																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE, A-4																
EST. FROM A-6 -0.808																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -.808																
AIRCRAFT CODE 130																
OPERATION CODE 01020																
PROFILE VERSION A																
26 MAY 76																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
70<	72<	74<	73<	73<	74<	73<	69	69	70	70	74	77	80	80	81	73 63 53
70<	72<	74<	73<	73<	74<	73<	69	71	72	74	76	80	84	84	84	75 65 55
70<	72<	74<	73<	73<	74<	73<	72	72	73	75	78	82	85	86	82	72 62 52
71	72	74	73	73	74	73	75	75	78	80	82	85	88	88	81	71 61 51
74	75	77	78	77	76	76	76	76	79	82	85	86	89	88	77	67 57 47
73	75	78	79	77	76	76	75	78	80	83	85	86	89	84	71	65 55 45
73	74	75	77	76	74	76	76	77	80	83	85	86	89	83	66	62 52 42
72	74	74	75	73	73	74	75	78	80	84	86	85	85	79	66	59 49 39
72	74	74	74	73	73	74	75	77	79	83	86	84	84	76	64	57 47 37
74	76	75	76	76	75	75	76	77	80	83	86	83	82	75	65	55 45 35
76	79	79	78	79	77	75	76	78	80	84	86	82	81	74	66	55 45 35
78	78	77	78	76	75	75	76	76	80	84	85	81	79	72	65	54 44 34
78	78	77	78	77	76	75	75	76	79	83	83	80	78	71	65	54 44 34
80	78	79	80	77	76	74	74	75	79	82	82	78	76	69	63	52 42 32
84	80	82	81	78	77	75	75	75	78	80	79	78	75	69	62	51 41 31
84	82	82	83	81	78	77	75	74	77	77	77	76	73	67	61	50 40 30
93	93	89	89	88	87	83	81	80	78	78	77	75	72	66	60	51 41 31
89	88	89	90	85	83	79	79	80	79	78	77	77	73	66	62	52 42 32
92	92	94	94	88	85	81	82	80	81	80	79	75	71	65	62	52 42 32
87	87	88	89	89	86	82	82	79	80	79	78	75	70	64	60	52 42 32
83	84	85	86	84	84	80	79	77	78	78	76	74	69	62	59	50 40 30
81	80	81	82	79	78	74	77	75	77	76	74	70	67	59	57	49 39 29
OVERALL	98	98	98	95	94	91	91	90	92	95	96	96	97	95	89	80 70 60

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-88																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE, A-4																
EST. FROM A-6 -0.808																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -.8 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-001																
AIRCRAFT CODE 130																
OPERATION CODE 01020																
PROFILE VERSION A																
26 MAY 76																
PAGE 01																
ANGLE (DEGREES)																
(DISTANCE)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	114.6	115.0	115.0	115.5	111.8	110.4	107.7	106.6	106.2	107.2	108.4	108.1	106.6	105.3	100.7	93.2
250	112.3	112.7	112.6	113.0	109.5	108.0	105.3	104.3	103.9	104.9	106.1	105.8	104.3	103.1	98.5	90.9
315	109.9	110.3	110.0	110.5	107.1	105.6	102.9	101.8	101.5	102.4	103.7	103.5	102.0	100.9	96.3	88.6
400	107.4	107.8	107.4	107.9	104.6	103.1	100.4	99.3	99.0	99.9	101.2	101.0	99.6	98.6	94.0	86.1
500	104.7	105.2	104.6	105.0	101.9	100.4	97.8	96.7	96.4	97.2	98.6	98.4	97.2	96.2	91.6	83.5
630	102.0	102.4	101.6	102.0	99.1	97.6	95.0	93.9	93.7	94.3	95.8	95.7	94.5	93.6	89.1	80.9
800	99.0	99.4	98.3	98.8	96.1	94.7	92.1	91.0	90.8	91.4	92.9	93.0	91.7	90.9	86.3	78.0
1000	95.0	96.2	94.8	95.2	92.9	91.5	88.9	87.0	87.6	88.3	89.7	90.2	88.7	88.2	83.2	74.9
1250	92.3	92.7	90.9	91.3	89.5	88.0	85.5	84.4	84.3	85.0	86.4	87.3	85.7	85.3	79.9	71.5
1600	88.5	89.0	87.0	87.2	85.7	84.2	81.8	80.6	80.6	81.4	83.0	84.3	82.6	82.2	76.4	67.7
2000	84.4	84.8	82.8	82.9	81.5	80.0	77.7	76.6	76.6	77.6	79.7	81.1	79.4	79.0	73.0	63.8
2500	79.7	80.1	78.2	78.3	76.9	75.4	73.1	72.1	72.1	73.5	76.1	77.6	75.6	75.1	68.9	59.9
3150	74.5	74.8	72.9	73.0	71.6	70.2	68.0	67.0	67.2	69.4	72.2	73.6	71.5	70.7	64.4	55.3
4000	68.6	68.9	67.0	67.2	65.8	64.4	62.2	61.5	62.3	64.8	67.9	69.2	66.9	66.0	59.5	49.8
5000	61.9	62.2	60.8	60.7	59.1	57.8	55.9	56.4	57.2	60.1	63.3	64.4	61.9	61.0	54.1	43.3
6300	55.2	54.6	54.6	54.9	53.0	51.6	49.9	50.4	51.5	54.7	58.2	59.3	56.7	55.7	48.3	36.1
8000	48.0	48.3	48.3	48.5	47.6	45.8	44.5	45.2	46.5	49.9	53.6	55.0	52.5	51.5	43.4	29.9
10000	41.3	42.2	42.1	42.0	41.2	39.7	38.3	39.0	40.5	44.3	48.5	50.4	47.5	46.8	38.4	21.0
12500	33.5	34.8	35.0	35.4	34.3	32.6	30.9	32.4	33.9	37.9	42.3	45.2	42.0	41.2	32.3	10.6
16000	23.1	27.2	27.0	27.0	26.9	24.2	23.2	24.8	26.6	30.9	35.6	38.9	35.6	35.4	22.5	.3
20000	9.4	14.4	14.6	15.2	14.4	11.4	11.2	13.0	16.1	21.5	28.6	31.9	27.8	27.5	9.0	
25000	1.6	2.1	2.1	3.4	1.9			1.2	5.5	7.3	16.4	21.5	16.3	13.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-88																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE, A-4																
EST. FROM A-6 -0.808																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -0.8 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-001																
RUN 02																
AIRCRAFT CODE 130																
OPERATION CODE 01020																
PROFILE VERSION A																
26 MAY 76																
PAGE E1																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	116.7	117.7	116.7	117.1	113.7	112.0	109.3	107.7	107.4	107.2	108.4	108.1	106.6	105.3	100.7	93.2
250	114.4	115.4	114.2	114.6	111.4	109.7	107.0	105.4	105.0	104.9	106.1	105.8	104.3	103.1	98.5	90.9
315	112.0	113.0	111.7	112.1	108.9	107.3	104.6	103.0	102.7	102.4	103.7	103.5	102.0	100.9	96.3	88.6
400	109.5	110.5	109.1	109.5	106.4	104.7	102.1	100.5	100.2	99.9	101.2	101.0	99.6	98.6	94.0	86.1
500	106.9	107.8	106.3	106.6	103.8	102.1	99.5	97.8	97.6	97.2	98.6	98.4	97.2	96.2	91.6	83.5
630	104.1	105.0	103.2	103.6	101.0	99.3	96.7	95.1	94.8	94.3	95.8	95.7	94.5	93.6	89.1	80.9
800	101.1	102.1	100.0	100.4	98.0	96.3	93.8	92.1	91.9	91.4	92.9	93.0	91.7	90.9	86.3	78.0
1000	97.9	98.9	96.5	96.8	94.8	93.1	90.6	88.9	88.8	88.3	89.7	90.2	88.7	88.2	83.2	74.9
1250	94.5	95.4	92.6	92.9	91.3	89.6	87.2	85.5	85.4	85.0	86.4	87.3	85.7	85.3	79.9	71.5
1600	90.7	91.6	88.7	88.8	87.5	85.9	83.4	81.8	81.7	81.4	83.0	84.3	82.6	82.2	76.4	67.7
2000	86.5	87.4	84.5	84.6	83.3	81.7	79.4	77.7	77.7	77.6	79.7	81.1	79.4	79.0	73.0	63.8
2500	81.8	82.8	79.8	79.9	78.7	77.1	74.8	73.2	73.3	73.5	76.1	77.6	75.6	75.1	68.9	59.9
3150	76.6	77.5	74.6	74.6	73.5	71.9	69.7	68.2	68.3	69.4	72.2	73.6	71.5	70.7	64.4	55.3
4000	70.3	71.0	68.3	68.4	67.3	65.7	63.6	62.4	63.2	64.8	67.9	69.2	66.9	66.0	59.5	49.8
5000	63.2	63.8	61.8	61.7	60.2	58.8	56.9	57.1	57.9	60.1	63.3	64.4	61.9	61.0	54.1	43.3
6300	56.1	55.7	55.2	55.5	53.8	52.2	50.6	50.9	51.9	54.7	58.2	59.3	56.7	55.7	48.3	36.1
8000	48.4	48.8	48.7	48.8	47.9	46.1	44.8	45.4	46.7	49.9	53.6	55.0	52.5	51.5	43.4	29.9
10000	41.3	42.2	42.1	42.0	41.2	39.7	38.3	39.0	40.5	44.3	48.5	50.4	47.5	46.8	38.4	21.0
12500	33.5	34.8	35.0	35.4	34.3	32.6	30.9	32.4	33.9	37.9	42.3	45.2	42.0	41.2	32.3	10.6
16000	23.1	27.2	27.0	27.0	26.9	24.2	23.2	24.8	26.6	30.9	35.6	38.9	35.6	35.4	22.5	.3
20000	9.4	14.4	14.6	15.2	14.4	11.4	11.2	13.0	16.1	21.5	28.6	31.9	27.8	27.6	9.0	
25000	1.6	2.1	2.1	3.4	1.9		1.2	1.2	5.5	7.3	16.4	21.5	16.3	13.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
A-4 AIRCRAFT										TEMP = 59 F									
ENG. J52-P-88										BAR PRESS = 29.92 IN HG									
GROUND RUNUP										REL HUMID = 70 %									
										DELTA N = -.8 DB									
										IDENTIFICATION:									
										OMEGA 8.2									
										TEST 74-004-001									
										RUN 02									
										AIRCRAFT CODE 130									
										OPERATION CODE 01020									
										PROFILE VERSION A									
										26 MAY 76									
										PAGE F1									
ANGLE (DEGREES)																			
DISTANCE (FEET)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170 >180
200	100.6	100.8	100.6	101.0	97.8	96.0	92.7	92.3	91.4	92.9	94.6	95.0	92.6	91.3	85.6	77.3	67.5	57.5	47.5
250	98.2	98.4	98.2	98.6	95.3	93.5	90.3	89.9	89.1	90.6	92.4	92.9	90.4	89.2	83.5	75.1	65.3	55.3	45.3
315	95.8	96.0	95.6	96.0	92.8	91.0	87.9	87.4	86.7	88.2	90.1	90.7	88.2	87.1	81.4	72.9	63.0	53.0	43.0
400	93.2	93.4	93.0	93.3	90.1	88.4	85.3	84.8	84.2	85.8	87.8	88.5	86.0	84.9	79.3	70.7	60.7	50.7	40.7
500	90.5	90.7	90.2	90.5	87.3	85.6	82.6	82.1	81.6	83.4	85.5	86.2	83.8	82.7	77.0	68.4	58.4	48.4	38.4
630	87.7	87.8	87.2	87.5	84.4	82.7	79.8	79.3	79.0	80.8	83.1	83.9	81.5	80.4	74.7	66.0	56.0	46.0	36.0
800	84.6	84.8	84.0	84.3	81.3	79.7	76.9	76.4	76.2	78.3	80.7	81.6	79.1	78.1	72.2	63.6	53.5	43.5	33.5
1000	81.4	81.5	80.7	80.9	78.1	76.5	73.9	73.4	73.4	75.6	78.2	79.2	76.6	75.7	69.7	61.1	50.9	40.9	30.9
1250	78.0	78.0	77.0	77.3	74.7	73.2	70.8	70.4	70.5	72.9	75.6	76.7	74.1	73.1	67.0	58.4	48.2	38.2	28.2
1600	74.3	74.3	73.2	73.4	71.1	69.7	67.5	67.2	67.5	70.1	73.0	74.1	71.4	70.4	64.1	55.6	45.3	35.3	25.3
2000	70.4	70.3	69.2	69.4	67.4	66.1	64.2	64.0	64.5	67.2	70.3	71.5	68.7	67.7	61.2	52.7	42.3	32.3	22.3
2500	66.2	66.1	65.0	65.3	63.5	62.4	60.7	60.7	61.3	64.2	67.3	68.6	65.7	64.6	57.9	49.6	39.1	29.1	19.1
3150	61.9	61.7	60.8	61.2	59.6	58.5	57.0	57.2	57.9	60.9	64.2	65.4	62.4	61.2	54.4	46.3	35.7	25.7	15.7
4000	57.4	57.1	56.5	56.9	55.4	54.5	53.1	53.5	54.1	57.3	60.7	61.9	58.8	57.4	50.5	42.6	31.9	21.9	11.9
5000	52.6	52.4	51.9	52.5	51.0	50.1	48.8	49.3	50.0	53.3	56.7	57.9	54.7	53.3	46.2	38.6	27.8	17.8	7.8
6300	47.7	47.6	47.1	47.8	46.4	45.5	44.3	44.9	45.6	48.9	52.5	53.6	50.4	48.9	41.8	34.3	23.4	13.4	3.4
8000	42.8	43.0	42.6	43.3	42.1	41.2	40.1	40.7	41.6	44.9	48.4	49.7	46.5	45.1	38.1	30.3	19.6	9.6	
10000	37.7	38.3	37.9	38.6	37.6	36.5	35.6	36.3	37.2	40.4	44.0	45.5	42.3	41.1	34.1	26.0	15.5	5.5	
12500	32.3	33.2	32.8	33.4	32.6	31.5	30.7	31.5	32.4	35.5	39.2	40.8	37.7	36.7	29.9	21.5	11.1	1.1	
16000	26.5	27.7	27.3	27.9	27.2	26.0	25.4	26.2	27.3	30.2	33.8	35.7	32.7	32.0	25.5	16.8	6.7		
20000	20.1	21.6	21.3	21.8	21.3	20.0	19.6	20.5	21.6	24.4	28.0	30.1	27.3	26.9	21.0	12.1	2.3		
25000	13.2	14.9	14.8	15.2	14.7	13.5	13.4	14.2	15.4	18.1	21.6	23.9	21.5	21.6	16.4	7.7			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
(NOISE SOURCE/SUBJECT:)										(IDENTIFICATION:)									
(A-4 AIRCRAFT)										(OMEGA 8.2)									
(ENG. J52-P-88)										(TEST 74-004-001)									
(GROUND RUNUP)										(RUN 02)									
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

A-4 AIRCRAFT

ENG. J52-P-8B

GROUND RUNUP

OPERATION:

ENGINE RUNUP, 75% RPM

SINGLE ENGINE, A-4

EST. FROM A-6 -0.8DB

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -.8 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-001

RUN 02

AIRCRAFT CODE 130

OPERATION CODE 01020

PROFILE VERSION A

26 MAY 76

PAGE J1

	A=AL											T=ALT										
	20	30	40	50	60	70	80	90	100	110	120	20	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 130																			
A-4 AIRCRAFT (MILITARY POWER, 99% RPM) TEMP = 59 F) OPERATION CODE 01004																			
ENG. J52-P-88 (SINGLE ENGINE, A-4) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (EST. FROM A-6 -0.808) REL HUMID = 70 %) 26 MAY 76																			
(DELTA N = -.8 DB) PAGE 02																			
BAND CENTER																			
FREQ (HZ)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50		87<	90<	92<	92<	92<	86	85	85	88	91	95	100	100	99	94	89	84	79
63		87<	90<	92<	92<	90<	86	87	86	90	93	100	104	102	100	95	90	85	80
80		87<	90<	92<	92<	90<	87	88	88	89	95	103	105	103	98	93	88	83	78
100		87	90	92	92	90	90	90	92	95	99	108	111	106	99	94	89	84	79
125		87	90	91	91	91	92	92	93	97	103	111	114	106	96	91	86	81	76
160		88	90	92	92	93	93	94	96	99	106	114	116	107	95	90	85	80	75
200		89	91	92	94	93	93	94	96	100	108	116	118	101	91	86	81	76	71
250		90	92	93	94	93	96	97	99	103	111	116	119	98	90	85	80	75	70
315		91	92	94	96	95	96	97	98	104	112	117	121	96	94	89	84	79	74
400		99	102	100	99	98	98	98	100	100	103	112	115	100	95	90	85	80	75
500		101	104	100	102	99	101	99	100	100	104	113	116	121	97	93	88	83	78
630		102	106	107	105	105	105	100	101	101	104	112	115	119	97	93	88	83	78
800		98	104	105	106	107	106	103	104	102	105	112	115	118	97	93	88	83	78
1000		97	102	102	104	104	106	105	104	106	110	113	116	97	92	87	82	77	72
1250		95	100	102	102	104	104	104	105	106	109	112	115	96	90	85	80	75	70
1600		95	99	101	102	102	104	102	104	104	108	111	115	98	89	84	79	74	69
2000		93	98	100	100	102	103	103	104	103	107	110	114	96	89	84	79	74	69
2500		92	96	99	99	100	102	101	103	103	106	106	109	94	87	82	77	72	67
3150		93	97	97	97	99	101	102	101	102	106	105	107	91	86	81	76	71	66
4000		91	94	96	96	97	99	101	101	101	104	105	108	89	86	81	76	71	66
5000		89	91	93	93	94	96	99	100	100	102	104	107	88	84	79	74	69	64
6300		88	89	91	91	92	94	97	97	97	100	103	105	85	82	77	72	67	62
8000		87	87	90	90	92	96	95	95	99	100	104	107	83	80	75	70	65	60
10000		81	82	84	85	87	88	92	92	95	97	101	106	80	77	72	67	62	57
OVERALL	108	112	113	113	113	114	113	114	114	117	122	126	130	114	108	103	98	93	88

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AD-A056 217

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 20/1
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)
MAR 78 J D SPEAKMAN, R G POWELL, R A LEE

UNCLASSIFIED

AMRL-TR-73-110-VOL-6

NL

2 OF 6

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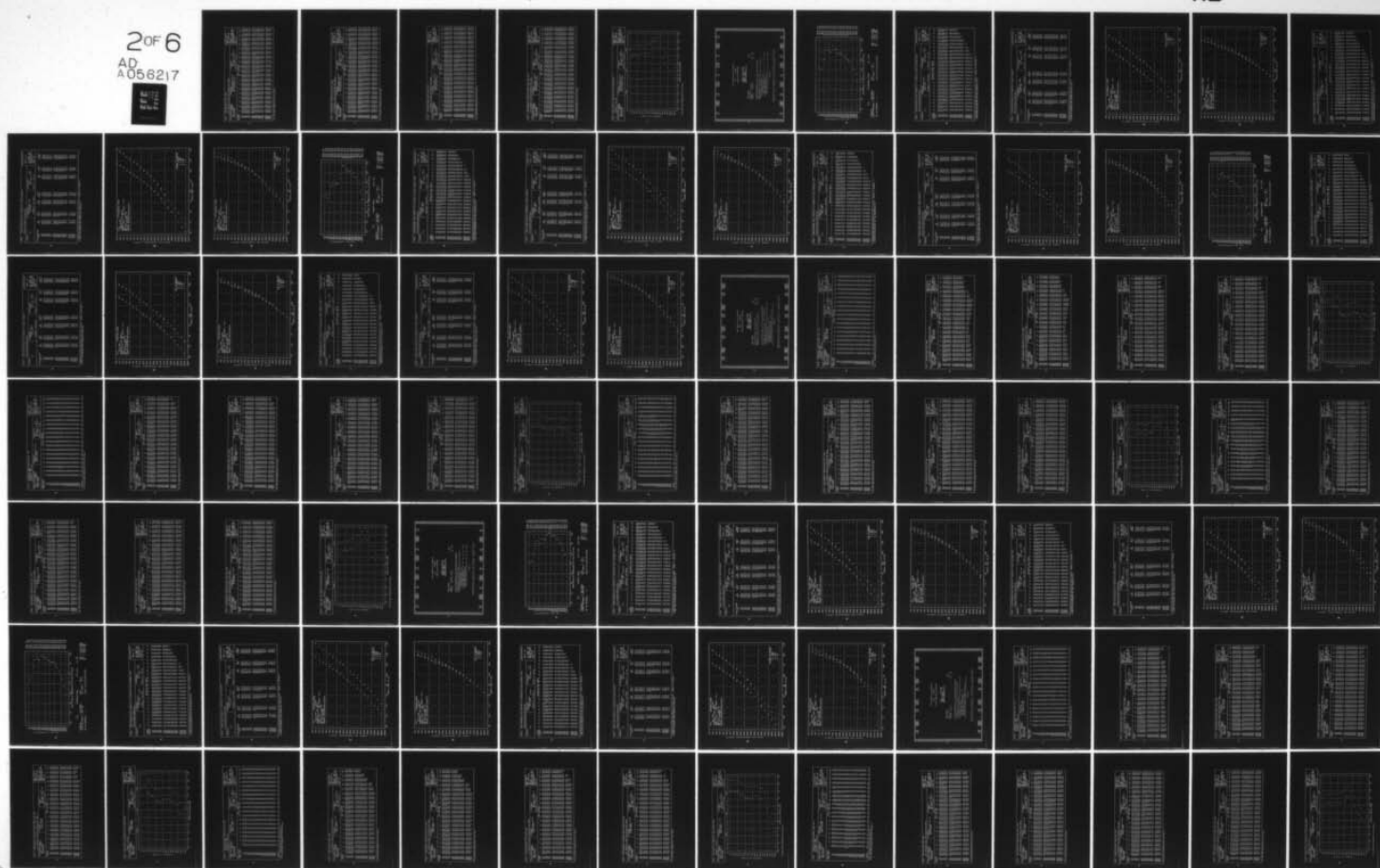


TABLE: PERCEIVED NOISE LEVEL (PNDB)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE) OMEGA 8.2	
NOISE SOURCE/SUBJECT:) TEST 74-004-001	
A-4 AIRCRAFT) RUN 03	
ENG. J52-P-88) AIRCRAFT CODE 130	
GROUND RUNUP) OPERATION CODE 01004	
) PROFILE VERSION A	
) 26 MAY 76	
) DELTA N = -.8 DB	
) PAGE 02	
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
ANGLE (DEGREES)																				
200	121.0	124.3	125.6	125.7	126.5	127.7	127.8	128.4	128.7	131.7	134.3	137.6	141.4	122.9	116.9	111.9	106.9	101.9	96.8	
250	116.7	122.0	123.4	123.5	124.3	125.5	125.5	126.2	126.5	129.5	132.0	135.4	139.2	120.8	114.8	109.8	104.7	99.7	94.5	
315	116.4	119.7	121.1	121.2	122.0	123.2	123.2	123.9	124.2	127.2	129.7	133.1	137.0	118.5	112.5	107.5	102.5	97.4	92.2	
400	114.0	117.4	118.8	118.9	119.6	120.8	120.8	121.5	121.8	124.8	127.3	130.8	134.6	116.2	110.2	105.2	100.1	95.0	89.8	
500	111.6	114.9	116.3	116.5	117.2	118.4	118.2	119.0	119.4	122.3	124.9	128.4	132.2	113.9	107.8	102.8	97.7	92.5	87.3	
630	109.0	112.5	113.8	113.9	114.7	115.8	115.6	116.4	116.8	119.7	122.4	125.8	129.7	111.4	105.4	100.3	95.1	89.9	84.7	
800	106.2	110.0	111.1	111.3	112.0	113.2	112.9	113.7	114.0	117.0	119.7	123.2	127.1	108.8	102.7	97.6	92.4	87.2	82.0	
1000	103.6	107.4	108.4	108.4	109.2	110.3	110.1	110.8	111.2	114.1	116.9	120.4	124.5	106.1	99.9	94.8	89.6	84.3	79.1	
1250	100.8	104.7	105.6	105.5	106.1	107.3	107.0	107.7	108.1	111.0	113.9	117.6	121.8	103.2	97.2	91.9	86.7	81.5	76.3	
1600	97.9	101.9	102.7	102.4	103.0	104.1	103.8	104.5	104.7	107.7	110.9	114.7	118.9	100.1	94.1	88.9	83.7	78.5	73.3	
2000	94.8	98.9	99.6	99.2	99.7	100.8	100.3	101.0	101.1	104.3	107.8	111.6	115.8	96.7	90.9	85.7	80.5	75.3	70.1	
2500	91.5	95.6	96.4	95.9	96.4	97.2	96.5	97.2	97.3	100.6	104.4	108.0	112.3	93.0	87.0	81.8	76.6	71.4	66.0	
3150	88.0	92.2	92.9	92.3	92.8	93.3	92.4	93.1	93.3	96.6	100.6	104.1	108.4	88.8	82.7	77.5	72.3	67.0	61.6	
4000	83.9	88.1	88.8	88.3	88.8	89.2	87.7	88.6	88.9	92.2	96.4	99.7	104.1	84.2	78.3	73.1	67.8	62.5	57.0	
5000	79.2	83.5	84.2	83.5	84.4	84.8	83.1	83.8	84.0	87.3	91.7	95.0	99.4	79.3	73.7	68.4	63.0	57.6	51.9	
6300	74.3	78.7	79.3	79.1	79.6	79.9	78.2	78.9	78.7	82.0	86.8	90.1	94.4	74.0	68.6	63.3	57.9	52.2	45.8	
8000	70.1	74.5	75.1	74.7	75.2	75.4	73.4	74.1	73.6	76.6	82.6	86.1	90.5	69.8	64.3	58.9	53.3	46.9	40.6	
10000	65.6	70.0	70.5	69.9	70.3	70.5	68.1	69.1	68.5	71.5	78.2	81.9	86.4	65.4	59.6	54.0	48.0	41.0	34.6	
12500	60.6	65.0	65.5	64.6	64.9	65.0	62.6	63.6	63.0	66.1	73.6	77.4	81.9	60.7	54.8	48.9	41.8	35.0	27.6	
16000	55.0	59.5	59.8	58.9	59.0	59.0	56.4	57.4	57.0	60.0	68.6	72.5	77.0	55.5	49.3	42.6	35.3	28.7	18.8	
20000	49.0	53.1	53.4	52.4	52.4	52.4	49.6	50.7	50.8	54.7	62.9	67.1	71.6	49.7	43.0	34.6	27.9	17.6	10.0	
25000	41.8	45.7	46.0	44.9	44.9	44.7	41.9	43.2	43.5	47.9	56.7	61.0	65.7	42.8	34.7	26.5	16.2	6.5	1.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-4 AIRCRAFT																
ENG. J52-P-8B																
GROUND RUNUP																
OPERATION:																
MILITARY POWER, 99% RPM																
SINGLE ENGINE, A-4																
EST. FROM A-6 -0.808																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -.808																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-001																
AIRCRAFT CODE 130																
OPERATION CODE 01004																
PROFILE VERSION A																
26 MAY 76																
PAGE E2																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	121.5	124.9	126.9	125.7	126.5	127.7	127.8	128.4	128.7	131.7	134.3	137.6	141.4	123.5	116.9	111.9
250	119.3	122.6	124.7	123.5	124.3	125.5	125.5	126.2	126.5	129.5	132.0	135.4	139.2	121.3	114.8	109.8
315	117.0	120.3	122.4	121.2	122.0	123.2	123.2	123.9	124.2	127.2	129.7	133.1	137.0	119.1	112.5	107.5
400	114.6	118.0	120.1	118.9	119.6	120.8	120.8	121.5	121.8	124.8	127.3	130.8	134.6	116.8	110.2	105.2
500	112.1	115.5	117.7	116.5	117.2	118.4	118.2	119.0	119.4	122.3	124.9	128.4	132.2	114.4	107.8	102.8
630	109.5	113.1	115.1	113.9	114.7	115.8	115.6	116.4	116.8	119.7	122.4	125.8	129.7	112.0	105.4	100.3
800	106.8	110.6	112.5	111.3	112.0	113.2	112.9	113.7	114.0	117.0	119.7	123.2	127.1	109.4	102.7	97.6
1000	104.1	108.0	109.7	108.4	109.2	110.3	110.1	110.8	111.2	114.1	116.9	120.4	124.5	106.6	99.9	94.8
1250	101.3	105.3	106.9	105.5	106.1	107.3	107.0	107.7	108.1	111.0	113.9	117.6	121.8	103.8	97.2	91.9
1600	98.4	102.5	104.0	102.4	103.0	104.1	103.8	104.5	104.7	107.7	110.9	114.7	118.9	100.7	94.1	88.9
2000	95.4	99.4	101.0	99.2	99.7	100.8	100.3	101.0	101.1	104.3	107.8	111.6	115.8	97.3	90.9	85.7
2500	92.1	96.2	97.7	95.9	96.4	97.2	96.5	97.2	97.3	100.6	104.4	108.0	112.3	93.6	87.0	81.8
3150	88.5	92.6	94.2	92.3	92.8	93.3	92.4	93.1	93.3	96.6	100.6	104.1	108.4	89.4	82.7	77.5
4000	84.3	88.6	89.9	88.3	88.8	89.2	87.7	88.6	88.9	92.2	96.4	99.7	104.1	84.7	78.3	73.1
5000	79.6	83.9	85.0	83.9	84.4	84.8	83.1	83.8	84.0	87.3	91.7	95.0	99.4	79.7	73.7	68.4
6300	74.5	78.9	79.8	79.1	79.6	79.9	78.2	78.9	78.7	82.0	86.8	90.1	94.4	74.3	68.6	63.3
8000	70.2	74.6	75.3	74.7	75.2	75.4	73.4	74.1	73.6	76.6	82.6	86.1	90.5	69.9	64.3	58.9
10000	65.6	70.0	70.5	69.9	70.3	70.5	68.1	69.1	68.5	71.5	78.2	81.9	86.4	65.4	59.6	54.0
12500	60.6	65.0	65.5	64.6	64.9	65.0	62.6	63.6	63.0	66.1	73.6	77.4	81.9	60.7	54.8	48.9
16000	55.0	59.5	59.8	58.9	59.0	59.0	56.4	57.4	57.0	60.8	68.6	72.5	77.0	55.5	49.3	42.6
20000	49.0	53.1	53.4	52.4	52.4	52.4	49.6	50.7	50.8	54.7	62.9	67.1	71.6	49.7	43.0	34.6
25000	41.8	45.7	46.0	44.9	44.9	44.7	41.9	43.2	43.5	47.9	56.7	61.0	65.7	42.8	34.7	26.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
A-4 AIRCRAFT															
ENG. J52-P-8B															
GROUND RUNUP															
OPERATION:															
MILITARY POWER, 99% RPM															
SINGLE ENGINE, A-4															
EST. FROM A-6 -0.808															
METEOROLOGY:															
TEMP = 59 F															
BAR PRESS =29.92 IN HG															
REL HUMID = 70 %															
DELTA N = -.8 DB															
IDENTIFICATION:															
OMEGA 8.2															
TEST 74-004-001															
RUN 03															
AIRCRAFT CODE 130															
OPERATION CODE 1004															
PROFILE VERSION A															
26 MAY 76															
PAGE F2															
ANGLE (DEGREES)															
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
200	108.9	113.1	114.1	114.2	114.8	115.8	115.2	115.9	115.8	118.7	121.9	125.0	128.9	108.9	103.2
250	106.7	111.0	112.0	112.1	112.6	113.7	113.0	113.7	113.6	115.5	119.8	122.8	126.8	106.8	101.1
315	104.6	108.9	109.8	110.0	110.5	111.5	110.8	111.5	111.4	114.2	117.6	120.7	124.6	104.7	98.9
400	102.4	106.7	107.6	107.8	108.3	109.3	108.5	109.2	109.1	111.9	115.4	118.5	122.5	102.5	96.7
500	100.2	104.5	105.4	105.5	106.0	107.0	106.1	106.9	106.8	109.6	113.1	116.3	120.2	100.3	94.5
630	97.9	102.3	103.1	103.3	103.7	104.7	103.7	104.5	104.4	107.2	110.9	114.0	118.0	97.9	92.2
800	95.6	100.0	100.8	100.9	101.4	102.3	101.3	102.0	101.9	104.7	108.5	111.6	115.7	95.6	89.9
1000	93.3	97.6	98.4	98.5	98.9	99.9	98.7	99.5	99.3	102.1	106.1	109.2	113.3	93.1	87.5
1250	90.9	95.2	96.0	96.1	96.4	97.3	96.1	96.8	96.7	99.4	103.6	106.7	110.8	90.3	85.0
1500	88.4	92.7	93.4	93.5	93.8	94.7	93.3	94.1	93.9	96.6	101.0	104.1	108.3	87.9	82.4
2000	85.8	90.2	90.8	90.8	91.1	91.9	90.5	91.2	91.0	93.7	98.4	101.5	105.6	85.1	79.8
2500	83.0	87.4	88.0	88.0	88.3	89.0	87.4	88.2	87.8	90.6	95.5	98.5	102.7	82.0	76.8
3150	79.9	84.4	85.0	84.9	85.2	85.9	84.1	84.9	84.5	87.2	92.3	95.3	99.4	78.7	73.5
4000	76.4	80.9	81.5	81.5	81.8	82.4	80.6	81.4	80.9	83.5	88.7	91.7	95.8	75.0	70.0
5000	72.3	76.9	77.6	77.6	77.9	78.5	76.6	77.4	76.8	79.4	84.7	87.6	91.7	70.9	65.9
6300	68.0	72.6	73.3	73.4	73.7	74.2	72.3	73.0	72.4	75.0	80.4	83.3	87.3	66.5	61.6
8000	64.2	68.7	69.3	69.3	69.5	70.0	67.9	68.6	67.9	70.5	76.4	79.3	83.4	62.4	57.6
10000	60.0	64.5	64.9	64.8	65.0	65.3	63.0	63.8	63.1	65.7	72.1	75.0	79.3	57.9	53.3
12500	55.4	59.8	60.0	59.8	60.0	60.2	57.7	58.5	57.7	60.5	67.4	70.4	74.7	53.1	48.6
16000	50.3	54.6	54.6	54.3	54.4	54.5	51.8	52.7	51.9	54.9	62.2	65.3	69.7	48.0	43.4
20000	44.6	48.7	48.5	48.1	48.0	48.1	45.2	46.2	45.6	48.8	56.5	59.7	64.2	42.6	37.8
25000	38.3	42.1	41.6	41.2	40.9	41.0	38.1	39.2	38.8	42.2	50.2	53.6	58.2	37.0	31.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-4 AIRCRAFT																			
ENG. J52-P-88																			
GROUND RUNUP																			
(OPERATION:																			
(MILITARY POWER, 99% RPM																			
(SINGLE ENGINE, A-4																			
(EST. FROM A-6 -0.8DB																			
(
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = -0.8 DB																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-001																			
) RUN 03																			
) AIRCRAFT CODE 130																			
) OPERATION CODE 01004																			
) PROFILE VERSION A																			
) 26 MAY 76																			
) PAGE 62																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	109.4	113.7	115.4	114.2	114.0	115.0	115.2	115.9	115.8	110.7	121.9	125.0	128.9	109.5	103.2	98.2	93.2	88.2	83.2
250	107.3	111.6	113.3	112.1	112.6	113.7	113.0	113.7	113.6	116.5	119.8	122.8	126.8	107.4	101.1	96.1	91.1	86.1	81.1
315	105.1	109.4	111.2	110.0	110.5	111.5	110.8	111.5	111.4	114.2	117.6	120.7	124.6	105.2	98.9	93.9	88.9	83.9	78.9
400	103.0	107.3	109.0	107.8	108.3	109.3	108.5	109.2	109.1	111.9	115.4	118.5	122.5	103.1	96.7	91.7	86.7	81.7	76.7
500	100.7	105.1	106.8	105.5	106.0	107.0	106.1	106.9	106.8	109.6	113.1	116.3	120.2	100.8	94.5	89.5	84.5	79.5	74.5
630	98.5	102.8	104.5	103.3	103.7	104.7	103.7	104.5	104.4	107.2	110.9	114.0	118.0	98.5	92.2	87.2	82.2	77.2	72.2
800	96.2	100.6	102.2	100.9	101.4	102.3	101.3	102.0	101.9	104.7	108.5	111.6	115.7	96.1	89.9	84.9	79.9	74.9	69.9
1000	93.8	98.2	99.8	98.5	98.9	99.9	98.7	99.5	99.3	102.1	106.1	109.2	113.3	93.7	87.5	82.5	77.5	72.5	67.5
1250	91.4	95.8	97.3	96.1	96.4	97.3	96.1	96.8	96.7	99.4	103.6	106.7	110.8	91.1	85.0	80.0	75.0	70.0	65.0
1600	88.9	93.3	94.8	93.5	93.8	94.7	93.3	94.1	93.9	96.6	101.0	104.1	108.3	88.4	82.4	77.4	72.4	67.4	62.4
2000	86.3	90.7	92.1	90.8	91.1	91.9	90.5	91.2	91.0	93.7	98.4	101.5	105.6	85.7	79.8	74.8	69.8	64.8	59.8
2500	83.5	88.0	89.3	88.0	88.3	89.0	87.4	88.2	87.8	90.6	95.5	98.5	102.7	82.5	76.8	71.8	66.8	61.8	56.8
3150	80.4	85.0	86.3	84.9	85.2	85.9	84.1	84.9	84.5	87.2	92.3	95.3	99.4	79.3	73.5	68.5	63.5	58.5	53.5
4000	76.8	81.4	82.6	81.5	81.8	82.4	80.6	81.4	80.9	83.5	88.7	91.7	95.8	75.5	70.0	65.0	60.0	55.0	50.0
5000	72.6	77.3	78.4	77.6	77.9	78.5	76.6	77.4	76.8	79.4	84.7	87.6	91.7	71.3	65.9	60.9	55.9	50.9	45.9
6300	68.2	72.9	73.8	73.4	73.7	74.2	72.3	73.0	72.4	75.0	80.4	83.3	87.3	66.7	61.6	56.6	51.6	46.6	41.6
8000	64.3	68.9	69.5	69.3	69.5	69.5	67.9	68.6	67.9	70.5	76.4	79.3	83.4	62.5	57.6	52.6	47.6	42.6	37.6
10000	60.0	64.5	64.9	64.8	65.0	65.3	63.0	63.8	63.1	65.7	72.1	75.0	79.3	57.9	53.3	48.3	43.3	38.3	33.3
12500	55.4	59.8	60.0	59.8	60.0	60.2	57.7	58.5	57.7	60.5	67.4	70.4	74.7	53.1	48.6	43.6	38.6	33.6	28.6
16000	50.3	54.6	54.6	54.3	54.4	54.5	51.8	52.7	51.9	54.9	62.2	65.3	69.7	48.0	43.4	38.4	33.4	28.4	23.4
20000	44.6	48.7	48.5	48.1	48.0	48.1	45.2	46.2	45.6	48.8	56.5	59.7	64.2	42.6	37.8	32.8	27.8	22.8	17.8
25000	38.3	42.1	41.6	41.2	40.9	41.0	38.1	39.2	38.8	42.2	50.2	53.6	58.2	37.0	31.9	26.9	21.9	16.9	11.9
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 ((DISTANCE = 250 FEET
 ((NOISE SOURCE/SUBJECT:
 ((A-4 AIRCRAFT
 ((ENG. J52-P-8B
 ((GROUND RUNUP
 ((OPERATION:
 ((MILITARY POWER, 99% RPM
 ((SINGLE ENGINE, A-4
 ((EST. FROM A-6 -0.808
 ((METEOROLOGY:
 ((TEMP = 59 F
 ((BAR PRESS = 29.92 IN HG
 ((REL HUMID = 70 %
 ((DELTA N = -.8 DB
 ((IDENTIFICATION:
 ((OMEGA 8.2
 ((TEST 74-004-001
 ((RUN 03
 ((AIRCRAFT CODE 130
 ((OPERATION CODE 01004
 ((PROFILE VERSION A
 ((26 MAY 76
 ((PAGE J2

	A=AL											T=ALT										
	P=PNLT											T=ALT										
	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
>150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOTSE PRODUCED ON THE GROUND BY

A-5 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 131
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

AFTERBURNER	-	100% RPM	.	.	.	.	.	.	. . . . .
TAKEOFF	-	100% RPM	.	.	.	.	.	.	. . . . .
APPROACH	-	83% RPM	.	.	.	.	.	.	. . . . .

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNLT)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNLT)

11 DEC 75

AEROSPACETTERMEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
(OPERATION:) METEOROLOGY:																										
(AFTERBURNER POWER) TEMP = 59 F																										
(100 % RPM) REL HUMID = 70 %																										
(AIRSPEED = 250 KNOTS) DELTA N = 0.0 DB																										
PAGE M1																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	106	105	104	116	124	127	123	122	128	124	126	122	121	122	121	120	119	118	118	118	116	116	116	116	115	
250	104	103	102	114	122	125	121	120	126	122	123	120	119	120	119	118	117	116	115	115	113	113	113	112		
315	102	101	100	112	120	123	119	118	124	120	121	118	117	118	117	116	115	114	113	113	111	110	109	108		
400	100	99	98	110	118	121	117	116	122	118	119	116	115	115	115	113	113	112	110	110	108	107	106	104		
500	98	97	96	108	116	119	115	114	120	116	117	114	113	113	113	111	110	109	108	107	105	104	102	99		
630	96	95	94	106	114	117	113	112	118	114	115	112	111	111	110	109	108	107	105	104	102	100	97	93		
800	94	93	92	103	112	115	111	110	116	112	113	110	109	109	108	106	106	104	102	101	98	96	92	87		
1000	92	91	90	101	110	113	109	108	114	110	111	107	106	107	106	104	103	101	99	97	94	91	86	79		
1250	90	89	88	99	108	111	106	106	112	107	109	105	104	104	103	101	100	98	96	93	90	86	79	69		
1600	88	87	86	97	106	109	104	104	109	105	106	103	102	102	101	98	97	95	92	89	85	79	71	58		
2000	86	84	84	95	104	107	102	102	107	103	104	100	99	99	98	95	94	91	87	83	79	72	61	45		
2500	84	82	82	93	102	105	100	99	105	101	102	98	97	96	95	92	90	87	82	77	72	63	49	28		
3150	82	80	80	91	100	102	98	97	103	98	99	95	94	93	91	88	86	82	77	70	64	52	34	8		
4000	80	78	78	89	98	100	96	95	100	96	97	93	91	90	88	84	81	77	70	61	54	40	16			
5000	78	76	76	87	95	98	93	92	98	93	94	90	88	86	84	80	76	70	62	51	43	24				
6300	76	74	74	85	93	96	91	90	95	90	91	86	84	82	79	75	70	63	53	39	29	5				
8000	73	72	71	82	91	93	88	87	93	87	88	83	80	78	74	69	63	54	42	24	11					
10000	71	70	69	80	89	91	86	85	90	84	84	79	75	73	68	61	54	43	28	6						
12500	69	67	67	78	86	88	83	82	86	81	80	74	70	67	61	53	44	31	11							
16000	67	65	65	75	83	85	80	78	83	77	76	69	64	60	53	43	32	15								
20000	65	63	62	73	81	82	77	75	79	72	70	63	57	51	43	31	17									
25000	62	60	59	70	78	79	73	71	74	67	65	56	49	42	31	16										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:
(A-5)	AFTERBURNER POWER	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)	
	100 % RPM								OMEGA 6.6
	REL HUMID = 70 %								A/C CODE: 131
	DELTA N = 0.0 DB								OPS CODE: 101
									PROFILE VER: A
									11 DEC 75
									PAGE 11
SLANT DISTANCE	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**		
(FEET)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)		
200	132.0	132.9	145.0	145.9	129.5	130.4	133.3		
250	129.9	130.7	142.8	143.6	128.3	129.3	132.1		
315	127.7	128.5	140.5	141.3	127.1	128.1	130.8		
400	125.5	126.3	138.2	139.0	125.9	126.9	129.4		
500	123.2	124.1	135.8	136.6	124.7	125.6	128.0		
630	120.9	121.8	133.4	134.2	123.4	124.3	126.7		
800	118.6	119.5	131.0	131.8	122.1	123.0	125.2		
1000	116.3	117.1	128.5	129.3	120.7	121.6	123.7		
1250	113.8	114.7	125.9	126.7	119.3	120.2	122.1		
1600	111.4	112.2	123.2	124.0	117.8	118.7	120.5		
2000	108.8	109.6	120.5	121.3	116.3	117.2	118.7		
2500	106.2	107.0	117.7	118.5	114.6	115.6	116.9		
3150	103.5	104.3	114.8	115.6	112.9	113.9	115.0		
4000	100.7	101.3	111.8	112.5	111.1	111.9	112.9		
5000	97.7	98.2	108.6	109.3	109.2	109.8	110.7		
6300	94.7	95.0	105.7	106.0	107.1	107.5	108.3		
8000	91.5	91.7	102.4	102.5	105.0	105.1	105.9		
10000	88.2	88.2	98.9	98.9	102.6	102.6	103.2		
12500	84.6	84.6	95.3	95.3	100.1	100.1	100.6		
16000	80.9	80.9	91.4	91.4	97.3	97.3	97.7		
20000	76.9	76.9	87.2	87.2	94.3	94.3	94.5		
25000	72.6	72.6	83.1	83.1	91.0	91.0	91.4		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																								
GROUND-TO-GROUND PROPAGATION																										
AIRCRAFT:																										
(OPERATION:																										
(AFTERBURNER POWER																										
(100 % RPM																										
(A-5																										
(AIRSPEED = 250 KNOTS																										
(DELTA N = 0.0 DB																										
(PAGE L1																										
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER																								
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
100	101	99	111	119	122	118	117	123	119	121	117	116	117	116	115	114	113	112	111	110	109	108	106	105	104	103
200	99	97	109	117	120	116	115	121	117	118	115	114	115	114	113	112	111	110	109	108	106	105	104	103	102	101
250	97	96	95	107	115	118	114	113	119	115	116	113	112	113	112	111	110	109	108	106	105	104	103	102	101	99
315	95	94	93	105	113	116	111	111	117	113	114	111	110	110	108	108	107	105	105	103	102	101	99	97	94	88
400	93	92	91	103	111	113	109	109	115	111	112	109	108	108	106	105	104	103	102	100	99	97	95	92	88	
500	91	90	89	101	109	111	106	106	113	109	110	107	106	106	105	104	103	102	100	99	97	95	92	88	82	
630	89	88	87	98	106	108	104	104	111	107	108	105	104	104	103	101	101	99	97	96	93	91	87	82	74	64
800	87	86	85	95	103	105	101	101	109	105	106	102	101	102	101	99	98	96	95	93	91	88	85	81	74	64
1000	85	84	82	92	100	102	98	98	106	102	104	100	99	99	98	96	95	93	92	90	87	84	80	74	66	53
1250	83	80	79	89	96	99	94	94	102	100	101	98	97	97	96	93	92	90	89	86	82	78	74	67	56	40
1600	80	77	75	85	93	95	90	90	99	98	99	95	94	94	93	90	89	85	82	77	72	67	58	44	23	3
2000	76	73	71	81	88	90	86	86	95	94	97	93	92	91	90	87	85	82	77	72	65	59	47	29	3	
2500	72	68	66	76	83	86	81	81	90	90	93	90	89	88	86	83	81	77	72	65	56	49	35	11		
3150	68	63	61	70	78	80	75	75	85	85	89	87	86	85	83	79	76	72	65	56	49	35	11			
4000	63	59	56	65	73	75	70	70	79	80	85	83	82	81	79	75	71	65	57	46	38	19				
5000	58	54	52	61	68	70	65	65	73	74	81	78	78	77	74	70	65	58	48	34	24					
6300	55	52	49	58	66	68	63	62	71	71	78	75	74	73	69	64	58	49	37	19	6					
8000	53	50	47	56	64	65	60	60	68	68	74	71	69	68	63	56	49	38	23	1						
10000	51	47	45	54	61	63	57	57	64	65	70	66	64	62	56	48	39	26	6							
12500	49	45	43	51	58	60	55	53	61	61	66	61	58	55	48	38	27	10								
16000	47	43	40	49	56	57	51	50	57	56	60	55	51	46	38	26	12									
20000	44	40	37	46	53	54	48	46	52	51	55	48	43	37	26	11										
25000																										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

AIRCRAFT:

(OPERATIONS:) METEOROLOGY: A/C CODE: 131

(TAKEOFF POWER) TEMP = 59 F OPS CODE: 103

(100 % RPM) REL HUMID = 70 % PROFILE VER: A

(AIRSPEED = 250 KNOTS) DELTA N = Q.0 DB 11 DEC 75

PAGE 12

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	128.4	128.4	139.8	139.8	125.5	127.0	128.8
250	126.3	126.3	137.5	137.5	124.4	125.8	127.5
315	124.1	124.1	135.3	135.3	123.2	124.6	126.3
400	121.8	121.8	132.9	132.9	121.9	123.4	124.9
500	119.5	119.5	130.5	130.5	120.6	122.1	123.5
630	117.2	117.2	127.9	127.9	119.3	120.8	121.9
800	114.8	114.8	125.3	125.3	117.9	119.4	120.3
1000	112.4	112.4	122.5	122.5	116.4	117.9	118.5
1250	109.8	109.8	119.6	119.6	114.9	116.4	116.6
1600	107.2	107.2	116.5	116.5	113.3	114.8	114.5
2000	104.5	104.5	113.2	113.2	111.6	113.0	112.2
2500	101.6	101.6	109.9	109.9	109.7	111.2	109.9
3150	98.6	98.6	106.6	106.6	107.7	109.2	107.6
4000	95.4	95.4	103.2	103.2	105.5	106.7	104.9
5000	92.1	92.1	99.6	99.6	103.2	104.0	102.0
6300	88.4	88.4	95.8	95.8	100.5	101.1	98.9
8000	84.5	84.5	91.8	91.8	97.6	97.9	95.6
10000	80.2	80.2	87.4	87.4	94.3	94.3	92.0
12500	75.5	75.5	82.7	82.7	90.6	90.6	88.2
16000	70.2	70.2	77.5	77.5	86.3	86.3	84.1
20000	64.4	64.4	71.7	71.7	81.5	81.5	79.3
25000	57.8	57.8	65.3	65.3	75.9	75.9	73.8

* * * EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
* * * BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							
GROUND-TO-GROUND PROPAGATION																							
AIRCRAFT:																							
((OPERATION:) METEOROLOGY:)																							
((TAKEOFF POWER))																							
((100 % RPM))																							
(())																							
((AIRSPEED = 250 KNOTS) DELTA N = 0.0 DB)																							
/																							
SLANT DISTANCE (FEET)																							
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
85	86	83	87	95	97	99	97	99	104	108	116	117	113	112	113	113	111	110	110	108	107	106	104
83	84	81	85	93	95	97	95	97	102	106	114	115	111	110	111	111	109	107	107	105	104	103	101
315	81	82	79	83	91	93	95	93	95	100	104	112	113	109	108	108	109	107	105	105	103	101	100
400	79	80	77	81	89	90	93	91	93	98	102	110	111	107	106	106	107	104	102	102	100	98	93
500	77	78	75	79	87	88	91	89	91	96	100	108	108	105	103	104	104	102	100	100	97	95	93
630	75	76	73	77	84	85	88	86	89	94	97	106	106	102	101	102	102	99	97	97	94	91	88
800	73	74	71	75	81	83	85	83	87	91	95	104	104	100	99	99	99	97	94	93	90	87	83
1000	71	72	69	72	78	80	82	80	84	89	93	102	102	98	96	97	97	94	91	90	87	83	77
1250	69	70	66	69	75	77	79	77	81	87	91	99	100	95	94	94	94	91	88	86	82	77	71
1600	67	66	63	66	72	73	76	74	78	85	89	97	97	93	91	91	91	88	84	81	77	71	62
2000	64	63	59	62	68	69	72	70	75	83	86	95	95	90	89	88	88	84	80	76	72	64	53
2500	60	59	55	57	64	65	67	65	71	79	84	92	92	88	86	85	84	80	75	70	65	55	41
3150	56	54	50	53	59	60	62	60	66	75	81	90	89	85	82	82	80	75	69	63	57	45	27
4000	52	49	45	47	53	54	57	55	61	70	77	86	86	81	79	78	76	70	63	55	48	32	10
5000	47	45	40	42	48	50	52	50	55	65	73	82	83	78	75	73	71	64	55	45	36	17	
6300	42	40	35	38	44	45	47	45	49	59	68	78	79	74	71	68	65	56	46	33	22		
8000	39	38	33	35	41	42	45	42	46	56	65	74	75	70	66	62	58	48	35	18	6		
10000	37	36	31	33	39	40	42	39	43	53	62	70	70	65	60	55	49	37	22	1			
12500	35	34	29	31	37	37	39	37	40	50	58	66	65	59	53	47	39	25	6				
16000	33	31	26	28	34	35	36	33	37	46	53	61	59	52	45	37	27	10					
20000	31	29	24	26	31	32	33	30	33	41	48	55	53	44	35	25	13						
25000	28	26	21	23	28	28	29	26	29	36	42	48	44	34	24	11							

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

A-5 TAKEOFF POWER

	60	70	80	90	100	110	120	130	140
250	(.
315	(.
400	(.
500	(.
630	(.
800	(.
1000	(.
1250	(.
1600	(.
2000	(.
2500	(.
3150	(.
4000	(.
5000	(.
6300	(.
8000	(.
10000	(.
12500	(.
16000	(.
20000	(.
25000	(.

100 X RPM
 AIRSPEED = 250 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 3
 IDENT: 6.6-131-103-111275-A

S
 L
 A
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 T
 O
 I
 S
 T
 A
 N
 C
 E
 I
 N
 F
 E
 E
 T

GROUND TO GROUND
 P = PNL
 * = PNL
 † = ALT
 A = AL

	40	50	60	70	80	90	100	110	MEAN	SD
F 50	82.2	7.3
R 63	82.4	7.1
E 80	79.3	5.9
Q 100	86.0	4.6
R 125	97.1	5.9
E 160	102.1	8.4
Q 200	103.3	7.3
U 250	98.2	7.9
E 315	99.9	3.2
N 400	98.6	3.6
C 500	97.5	2.6
Y 630	95.5	1.7
I 800	95.3	.8
N 1000	93.8	.7
H 1250	92.4	.2
Z 1600	90.5	1.5
N 2000	89.0	1.9
H 2500	87.1	1.3
Z 3150	83.9	1.0
N 4000	80.3	1.3
U 5000	75.6	2.3
E 6300	69.3	2.1
Q 8000	62.3	3.1
I 10000	49.3	4.7

83 % RPM

APPROACH POWER

A-5

PNLT = 116.0 PNOB
PNL = 115.5 PNOB
ALT = 104.3 DBA
AL = 103.8 DBA

TEMP = 59 F
REL HUMID = 70 %

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

IDENT: 6.6-131-105-111275

NO. OF RECORDS = 3

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT: (OPERATION:) METEOROLOGY: A/C CODE: 131											
(APPROACH POWER) TEMP = 59 F OPS CODE: 105											
(83 % RPM) REL HUMID = 70 % PROFILE VER: A											
(AIRSPEED = 160 KNOTS) DELTA N = 0.0 DB 11 DEC 75											
() PAGE 13											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	119.3	119.8	131.7	132.2	122.0	123.0	125.1				
250	117.2	117.7	129.4	130.0	120.9	121.9	123.8				
315	115.0	115.6	127.2	127.8	119.7	120.7	122.6				
400	112.9	113.4	125.0	125.5	118.6	119.5	121.4				
500	110.7	111.2	122.7	123.2	117.4	118.3	120.1				
630	108.4	108.9	120.4	120.9	116.1	117.1	118.8				
800	106.1	106.6	118.0	118.5	114.8	115.8	117.4				
1000	103.8	104.3	115.5	116.0	113.5	114.5	115.9				
1250	101.4	101.9	113.0	113.5	112.1	113.1	114.4				
1600	98.9	99.4	110.4	110.9	110.6	111.6	112.8				
2000	96.4	96.9	107.7	108.2	109.1	110.1	111.1				
2500	93.8	94.3	104.9	105.5	107.5	108.4	109.3				
3150	91.0	91.6	102.1	102.6	105.8	106.7	107.5				
4000	88.2	88.6	99.2	99.6	103.9	104.7	105.4				
5000	85.3	85.6	96.2	96.5	102.0	102.6	103.2				
6300	82.2	82.4	93.1	93.3	99.9	100.3	101.0				
8000	79.0	79.1	89.9	90.0	97.7	97.9	98.5				
10000	75.7	75.7	86.5	86.5	95.4	95.4	96.0				
12500	72.1	72.1	83.0	83.0	92.8	92.8	93.4				
16000	68.4	68.4	79.1	79.1	90.1	90.1	90.6				
20000	64.4	64.4	74.8	74.8	87.1	87.1	87.3				
25000	60.1	60.1	70.1	70.1	83.8	83.8	83.5				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

A-5 APPROACH POWER										A+-----X-----									
200	(((((((((((((((((((
250	(((((((((((((((((((
315	(((((((((((((((((((
400	(((((((((((((((((((
500	(((((((((((((((((((
630	(((((((((((((((((((
800	(((((((((((((((((((
1000	(((((((((((((((((((
1250	(((((((((((((((((((
1600	(((((((((((((((((((
2000	(((((((((((((((((((
2500	(((((((((((((((((((
3150	(((((((((((((((((((
4000	(((((((((((((((((((
5000	(((((((((((((((((((
6300	(((((((((((((((((((
8000	(((((((((((((((((((
10000	(((((((((((((((((((
12500	(((((((((((((((((((
16000	(((((((((((((((((((
20000	(((((((((((((((((((
25000	(((((((((((((((((((
S L A N T D I S T A N C E I N F E E T										AIR TO GROUND									
P = PNL										P = PNL									
* = PNL										* = PNL									
+ = ALT										+ = ALT									
A = AL										A = AL									
NOISE LEVEL IN DB										NOISE LEVEL IN DB									
60 70 80 90 100 110 120 130 140										60 70 80 90 100 110 120 130 140									

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																								A/C CODE: 131	
A-5																								OPS CODE: 105	
																								PROFILE VER: A	
																								11 DEC 75	
																								PAGE L3	
METEOROLOGY:																								TEMP = 59 F	
																								REL HUMID = 70 %	
AIRSPEED = 160 KNOTS																								DELTA N = 0.0 DB	
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	91	91	88	95	106	111	113	108	109	108	107	105	106	104	103	102	101	100	98	97	94	91	90	85	
250	89	89	86	93	104	109	111	106	107	106	105	103	103	102	101	100	99	98	96	94	91	88	87	82	
315	87	87	84	91	102	107	109	103	105	104	103	101	101	100	99	98	97	96	94	92	88	85	83	78	
400	85	85	82	89	100	105	106	101	103	102	101	99	99	98	97	95	94	93	91	89	85	82	79	73	
500	83	83	80	87	98	103	104	99	101	100	99	97	97	96	95	93	92	91	88	86	82	78	75	67	
630	81	81	78	85	95	100	101	97	99	98	97	95	95	94	92	91	89	88	85	83	79	74	70	61	
800	79	79	76	83	93	97	98	94	97	96	95	93	93	91	90	88	87	85	82	79	75	70	64	53	
1000	77	77	74	80	90	94	96	91	95	94	93	91	90	89	87	85	84	82	79	75	71	64	57	44	
1250	75	75	71	77	87	91	92	88	92	91	90	88	88	86	85	83	81	79	75	71	66	58	49	33	
1600	73	72	68	73	83	88	89	84	88	89	88	86	85	84	82	80	78	75	71	66	60	51	40	20	
2000	70	69	64	69	79	84	85	80	85	87	86	83	83	81	79	76	74	71	66	60	53	42	28	4	
2500	66	65	60	65	75	79	81	76	81	83	83	81	80	78	76	73	70	66	61	53	46	32	14		
3150	63	60	55	60	70	75	76	71	76	79	80	78	77	75	72	69	66	61	54	45	36	20			
4000	58	55	50	55	64	69	70	65	71	74	76	74	74	71	68	65	61	55	47	35	25	5			
5000	53	50	45	50	60	64	65	60	65	68	71	70	70	67	64	59	55	48	38	23	11				
6300	48	46	41	45	55	59	60	55	59	63	67	65	66	63	59	54	48	39	27	9					
8000	46	44	38	43	53	57	57	52	56	60	63	61	61	58	53	47	39	29	14						
10000	43	41	36	40	50	54	54	49	53	56	59	57	56	52	47	39	30	17							
12500	41	39	34	38	47	51	52	46	49	52	55	52	50	46	39	29	18	2							
16000	39	37	31	35	45	48	48	42	45	48	50	46	44	38	29	17	3								
20000	37	34	29	33	42	45	45	39	41	43	44	40	36	28	17	3									
25000	34	32	26	30	39	42	41	34	36	37	37	32	26	16	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:
A-5			(OPERATION:)	METEOROLOGY:					
			(APPROACH POWER)	TEMP = 59 F					
			(83 % RPM)	REL HUMID = 70 %					
			()	DELTA N = 0.0 DB					
			(AIRSPEED = 160 KNOTS)	PAGE M3					
			()						
			()						
	200	114.3	114.3	126.7	126.7	117.0	117.5	119.5	
	250	112.2	112.2	124.4	124.4	115.9	116.3	118.3	
	315	110.0	110.0	122.2	122.2	114.7	115.2	117.1	
	400	107.8	107.8	119.9	119.9	113.6	114.0	115.8	
	500	105.6	105.6	117.4	117.4	112.3	112.8	114.3	
	630	103.3	103.3	114.9	114.9	111.0	111.5	112.7	
	800	100.9	100.9	112.3	112.3	109.6	110.1	111.2	
	1000	98.5	98.5	109.6	109.6	108.2	108.6	109.5	
	1250	95.9	95.9	106.7	106.7	106.6	107.0	107.6	
	1600	93.2	93.2	103.8	103.8	104.9	105.3	105.6	
	2000	90.4	90.4	100.6	100.6	103.1	103.5	103.5	
	2500	87.2	87.2	96.7	96.7	100.9	101.4	100.6	
	3150	83.7	83.7	92.6	92.6	98.4	98.9	97.5	
	4000	79.8	79.8	87.9	87.9	95.5	95.9	93.7	
	5000	75.4	75.4	83.0	83.0	92.1	92.4	89.7	
	6300	70.7	70.7	77.7	77.7	88.4	88.6	85.4	
	8000	66.5	66.5	73.6	73.6	85.2	85.3	82.1	
	10000	61.9	61.9	69.1	69.1	81.6	81.6	78.5	
	12500	56.9	56.9	64.1	64.1	77.6	77.6	74.6	
	16000	51.5	51.5	58.8	58.8	73.2	73.2	70.2	
	20000	45.7	45.7	52.6	52.6	68.4	68.4	65.1	
	25000	39.5	39.5	45.4	45.4	63.2	63.2	58.9	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

A-5 APPROACH POWER											X
200	(	.	83 % RPM	.	.	.	.	.	.	.	X
250	(	.	AIR SPEED = 160 KNOTS	.	.	.	.	.	.	.	X
315	(	.	TEMP = 59 F REL HUMID = 70 %	.	.	.	.	.	.	.	X
400	(	.	DELTA N = 0.0 DB	.	.	.	.	.	.	.	X
500	(	.	NO. OF RECORDS: 3	.	.	.	.	.	.	.	X
	(	.	IDENT: 6.6-131-105-111275-A	.	.	.	.	.	.	.	X
S 630	(	.	.	.	.	.	.	.	.	.	X
L 800	(	.	.	.	.	.	.	.	.	.	X
N 1000	(	.	.	.	.	.	.	.	.	.	X
D 1250	(	.	.	.	.	.	.	.	.	.	X
I 1600	(	.	.	.	.	.	.	.	.	.	X
S 2000	(	.	.	.	.	.	.	.	.	.	X
A 2500	(	.	.	.	.	.	.	.	.	.	X
N 3150	(	.	.	.	.	.	.	.	.	.	X
C 4000	(	.	.	.	.	.	.	.	.	.	X
E 5000	(	.	.	.	.	.	.	.	.	.	X
E 6300	(	.	.	.	.	.	.	.	.	.	X
T 8000	(	.	.	.	.	.	.	.	.	.	X
10000	(	.	.	.	.	.	.	.	.	.	X
12500	(	.	.	.	.	.	.	.	.	.	X
16000	(	.	.	.	.	.	.	.	.	.	X
20000	(	.	.	.	.	.	.	.	.	.	X
25000	(	.	.	.	.	.	.	.	.	.	X
GROUND TO GROUND											
P = PNL											
+ = PNL											
+ = ALT											
A = AL											
NOISE LEVEL IN DB											
50											130
60											120
70											110
80											100
90											90
100											80
110											70
120											60
130											50

A-5 APPROACH POWER										X-E									
200	(((((((((((((((((((
250	(((((((((((((((((((
315	(((((((((((((((((((
400	(((((((((((((((((((
500	(((((((((((((((((((
S 630	(((((((((((((((((((
L 800	(((((((((((((((((((
A 1000	(((((((((((((((((((
T 1250	(((((((((((((((((((
D 1600	(((((((((((((((((((
I 2000	(((((((((((((((((((
S 2500	(((((((((((((((((((
T 3150	(((((((((((((((((((
A 4000	(((((((((((((((((((
N 5000	(((((((((((((((((((
C 6300	(((((((((((((((((((
E 8000	(((((((((((((((((((
I 10000	(((((((((((((((((((
N 12500	(((((((((((((((((((
S 16000	(((((((((((((((((((
T 20000	(((((((((((((((((((
E 25000	(((((((((((((((((((
E-X										X-E									
40	(((((((((((((((((((
50	(((((((((((((((((((
60	(((((((((((((((((((
70	(((((((((((((((((((
80	(((((((((((((((((((
90	(((((((((((((((((((
100	(((((((((((((((((((
110	(((((((((((((((((((
120	(((((((((((((((((((

RA-5C AIRCRAFT

TEST 74-004-002
AIRCRAFT CODE: 131
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

PAGE

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

31 OCT 75

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																		
1/3 OCTAVE BAND																		
DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT:																		
(RA-5C AIRCRAFT																		
(ENG. J79-GE-8C																		
(GROUND RUNUP																		
(OPERATION:																		
(IDLE, 65% RPM																		
(SINGLE ENGINE																		
(METEOROLOGY:																		
(TEMP = 59 F																		
(BAR PRESS = 29.92 IN HG																		
(REL HUMID = 70 %																		
(DELTA N = 0.0 DB																		
(IDENTIFICATION:																		
(OMEGA 8.2																		
(TEST 74-004-002																		
(RUN 01																		
(AIRCRAFT CODE 131																		
(OPERATION CODE 01013																		
(PROFILE VERSION A																		
(31 OCT 75																		
(PAGE 01																		
BAND CENTER																		
FREQ (HZ)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	72	72	73	76	77	77	79	78	77	77	77	76	76	74	70	66	70	72
63	67	69	71	72	72	73	72	71	72	75	75	75	77	74	66	60	63	68
80	70	72	74	74	71	73	70	72	76	77	79	78	78	72	68	55	57	63
100	70	70	72	72	72	71	69	71	73	76	78	76	78	75	67	55	57	61
125	70	72	73	74	75	72	72	71	73	77	79	81	81	78	69	60	58	64
160	69	72	73	73	71	70	72	76	78	81	82	81	83	76	66	59	56	62
200	69	70	71	69	67	65	64	65	68	71	76	78	77	80	74	65	54	57
250	71	72	72	71	67	67	67	68	70	72	76	77	79	72	65	53	52	59
315	74	75	73	69	67	67	67	69	70	76	79	80	79	73	64	53	51	55
400	75	76	73	70	69	67	69	70	70	75	77	79	78	72	64	52	49	53
500	76	76	72	72	70	68	65	66	71	73	75	75	75	66	60	50	47	49
630	75	75	72	71	69	68	64	63	63	68	73	73	73	62	58	48	46	46
800	77	74	73	71	70	68	64	63	65	70	72	72	69	63	59	49	47	46
1000	77	73	74	72	70	69	64	63	64	68	69	66	64	60	57	48	46	45
1250	77	75	76	74	70	65	63	63	63	67	70	66	62	60	58	48	46	45
1600	90	91	87	84	83	74	70	67	65	67	70	69	68	67	66	58	55	53
2000	85	86	86	82	81	79	73	69	65	62	65	68	67	64	62	54	50	48
2500	83	82	84	81	82	80	73	69	66	62	63	65	64	63	60	52	49	46
3150	78	77	78	76	75	74	68	65	62	58	60	62	60	63	59	56	48	45
4000	76	75	76	74	73	72	67	64	61	60	63	64	64	63	59	56	48	44
5000	73	71	72	70	68	63	61	59	63	63	63	62	62	57	53	46	43	41
6300	70	68	69	68	66	65	61	58	57	56	60	60	59	60	55	51	43	40
8000	65	64	64	63	61	60	56	54	53	53	55	55	55	51	47	39	34	36
10000	93	94	94	91	89	88	84	83	85	88	89	89	90	85	78	70	72	75
OVERALL																		

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PN0B)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(RA-5C AIRCRAFT																			
(ENG. J79-GE-8C																			
(GROUND RUNUP																			
(OPERATION:																			
(IDLE, 65% RPM																			
(SINGLE ENGINE																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
(METEOROLOGY:																			
(AIRCRAFT CODE 131																			
(OPERATION CODE 01013																			
(PROFILE VERSION A																			
(31 OCT 75																			
(PAGE 01																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 74-004-002																			
(RUN 01																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.2	108.5	108.6	105.5	104.4	102.8	97.4	94.8	93.1	92.2	95.6	97.3	97.3	97.3	92.2	88.2	79.3	76.8	76.7
250	106.0	106.3	106.4	103.3	102.1	100.5	95.1	92.5	90.8	90.0	93.4	95.1	95.1	95.1	90.0	85.9	77.0	74.5	74.4
315	103.7	104.0	104.2	101.0	99.8	98.2	92.8	90.2	88.5	87.7	91.1	92.9	92.9	92.9	87.7	83.6	74.7	72.2	72.1
400	101.4	101.7	101.9	98.7	97.4	95.8	90.4	87.7	86.1	85.3	88.8	90.6	90.6	90.6	85.3	81.3	72.3	69.8	69.8
500	99.0	99.4	99.5	96.3	95.0	93.3	87.9	85.2	83.6	82.7	86.2	88.2	88.2	88.2	82.9	78.8	69.8	67.3	67.3
630	96.5	96.9	97.0	93.8	92.4	90.7	85.3	82.6	81.0	80.0	83.7	85.7	85.8	85.8	80.4	76.3	67.2	64.7	64.7
800	93.9	94.3	94.4	91.2	89.6	88.0	82.5	79.8	78.2	77.1	81.1	83.1	83.2	83.2	77.8	73.6	64.4	61.8	61.8
1000	91.2	91.6	91.7	88.4	86.7	85.1	79.6	76.9	75.3	74.3	78.4	80.5	80.6	80.5	75.1	70.8	61.4	58.8	58.9
1250	88.3	88.7	88.8	85.5	83.6	82.0	76.4	73.8	72.2	71.3	75.6	77.6	77.8	77.7	72.3	67.8	58.3	55.6	55.5
1600	85.2	85.7	85.7	82.4	80.2	78.9	73.0	70.3	68.7	68.2	72.6	74.6	74.9	74.7	69.2	64.5	54.8	51.9	51.8
2000	82.0	82.4	82.4	79.0	76.7	75.4	69.2	66.6	65.0	64.9	69.3	71.5	71.8	71.5	66.0	61.0	50.9	47.6	47.4
2500	78.3	78.8	78.8	75.3	73.0	71.7	65.1	62.5	60.9	60.8	65.3	67.5	67.8	67.5	61.8	56.9	46.6	42.2	41.6
3150	74.4	74.8	74.8	71.2	68.8	67.5	60.7	58.0	56.4	56.0	60.7	63.0	63.3	62.9	57.0	52.4	40.4	36.4	35.1
4000	70.0	70.5	70.4	66.7	64.3	62.9	55.7	53.0	51.0	50.3	55.4	57.9	58.1	57.6	51.6	46.9	34.0	29.7	27.0
5000	65.1	65.5	65.5	61.6	59.1	57.7	50.3	46.9	44.6	44.0	49.4	52.3	52.6	52.0	45.1	40.3	25.2	17.5	12.4
6300	59.7	60.1	59.9	55.9	53.4	52.0	43.8	40.0	37.3	37.5	43.3	46.4	47.0	46.1	37.6	32.7	12.6	7.3	
8000	53.8	54.1	53.9	49.8	47.1	45.6	35.8	32.0	31.4	31.1	38.1	41.3	42.2	41.4	31.9	21.6			
10000	46.9	47.2	46.9	42.2	38.8	36.8	24.9	21.7	22.4	22.9	31.7	35.5	36.7	36.0	24.5	10.4			
12500	37.8	37.6	36.7	31.6	27.1	24.3	8.1	10.1	12.1	12.6	24.5	29.0	30.5	29.2	15.7				
16000	26.4	26.7	22.1	15.9	8.9	11.8			1.9	2.4	14.3	21.2	23.8	21.0	7.2				
20000	13.3	10.6	7.5	.2							4.2	8.3	12.8	11.9					
25000	.2											1.9	2.9						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(RA-5C AIRCRAFT																				
(ENG. J79-GE-8C																				
(GROUND RUNUP																				
) IDENTIFICATION:																				
) OMEGA 8.2																				
) TEST 74-004-002																				
) RUN 01																				
) AIRCRAFT CODE 131																				
) OPERATION CODE 01013																				
) PROFILE VERSION A																				
) 31 OCT 75																				
) PAGE E1																				
) METEOROLOGY:																				
) TEMP = 59 F																				
) BAR PRESS = 29.92 IN HG																				
) REL HUMID = 70 %																				
) DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	111.3	112.1	112.1	108.4	106.6	105.6	99.1	96.1	93.9	93.0	96.2	97.3	97.3	98.7	93.8	90.2	81.5	79.0	78.8	
250	109.1	109.9	109.9	106.1	104.3	103.3	96.8	93.9	91.7	90.7	94.0	95.1	95.1	96.5	91.6	87.9	79.2	76.7	76.6	
315	106.8	107.6	107.6	103.9	102.0	101.0	94.5	91.5	89.3	88.5	91.7	92.9	92.9	94.3	89.2	85.6	76.9	74.4	74.3	
400	104.5	105.3	105.3	101.5	99.6	98.6	92.1	89.1	86.9	86.0	89.4	90.6	90.6	92.0	86.9	83.3	74.5	72.0	71.9	
500	102.2	103.0	102.9	99.1	97.1	96.1	89.6	86.6	84.4	83.5	86.8	88.2	88.2	89.6	84.5	80.8	72.0	69.5	69.4	
630	99.7	100.5	100.4	96.6	94.5	93.5	86.9	84.0	81.8	80.7	84.3	85.7	85.8	87.1	82.0	78.3	69.4	66.8	66.8	
800	97.1	97.9	97.8	94.0	91.8	90.8	84.2	81.2	79.0	77.9	81.7	83.1	83.2	84.6	79.4	75.6	66.7	64.0	64.0	
1000	94.3	95.2	95.1	91.2	88.9	87.9	81.3	78.3	76.1	75.0	79.0	80.5	80.6	81.9	76.7	72.8	63.6	60.9	61.0	
1250	91.5	92.3	92.2	88.3	85.7	84.8	78.1	75.2	73.0	72.1	76.2	77.6	77.8	79.0	73.8	69.8	60.5	57.7	57.7	
1600	88.4	89.3	89.2	85.2	82.4	81.7	74.7	71.7	69.6	68.0	73.2	74.6	74.9	76.0	70.8	66.5	57.0	54.0	53.9	
2000	85.1	86.0	85.8	81.8	78.9	78.2	70.9	67.9	65.8	65.7	69.9	71.5	71.8	72.9	67.5	62.9	53.1	49.8	49.5	
2500	81.5	82.4	82.2	78.1	75.2	74.5	66.8	63.8	61.7	61.5	65.9	67.5	67.8	68.8	63.3	58.9	48.8	44.4	43.7	
3150	77.5	78.4	78.2	74.1	71.0	70.3	62.4	59.4	57.2	56.7	61.3	63.0	63.3	64.3	58.6	54.4	42.6	38.5	37.2	
4000	72.5	73.3	73.1	69.0	66.0	65.2	57.0	54.1	51.7	50.9	55.9	57.9	58.1	58.6	52.8	48.5	35.7	31.5	28.7	
5000	67.0	67.7	67.6	63.3	60.4	59.3	51.3	47.7	45.1	44.5	49.7	52.3	52.6	52.8	46.1	41.3	26.5	18.8	13.7	
6300	61.0	61.5	61.3	57.1	54.2	53.1	44.4	40.6	37.6	37.8	43.6	46.4	47.0	46.7	38.3	33.5	13.5	8.1		
8000	54.4	54.8	54.6	50.4	47.5	46.2	36.1	32.2	31.6	31.2	38.2	41.3	42.2	41.6	32.2	22.0	.4			
10000	46.9	47.2	46.9	42.2	38.8	36.8	24.9	21.7	22.4	22.9	31.7	35.5	36.7	36.0	24.5	10.4				
12500	37.0	37.6	36.7	31.6	27.1	24.3	8.1	10.1	12.1	12.6	24.5	29.0	30.5	29.2	15.7					
16000	26.4	24.7	22.1	15.9	8.9	11.8			1.9	2.4	14.3	21.2	23.8	21.0	7.2					
20000	13.3	10.6	7.5	.2						4.2	8.3	12.8	11.9							
25000	.2										1.9	2.9								

TABLE# A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT#																			
(RA-5C AIRCRAFT																			
(ENG. J79-GE-8C																			
(GROUND RUNUP																			
(OPERATION#																			
(IDLE, 65% RPM																			
(SINGLE ENGINE																			
(METEOROLOGY#																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
) IDENTIFICATION#																			
) OMEGA 8.2																			
) TEST 74-004-002																			
) RUN 01																			
) AIRCRAFT CODE 131																			
) OPERATION CODE 01013																			
) PROFILE VERSION A																			
) 31 OCT 75																			
) PAGE F1																			
) ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	96.0	96.6	96.8	93.1	91.4	89.9	83.2	80.1	78.3	77.7	81.6	83.7	83.7	83.3	78.2	74.0	65.5	62.5	62.3
250	93.9	94.4	94.6	90.9	89.2	87.7	81.0	77.9	76.1	75.5	79.5	81.7	81.6	81.2	76.1	71.9	63.3	60.4	60.2
315	91.7	92.2	92.4	88.7	87.0	85.5	78.7	75.7	73.9	73.4	77.4	79.5	79.5	79.1	73.9	69.7	61.1	58.2	58.1
400	89.4	90.0	90.2	86.5	84.7	83.2	76.4	73.4	71.7	71.2	75.2	77.4	77.4	77.0	71.7	67.5	58.8	56.0	55.9
500	87.1	87.7	87.9	84.1	82.3	80.8	74.0	71.0	69.4	69.0	73.0	75.2	75.2	74.8	69.5	65.2	56.5	53.7	53.7
630	84.8	85.3	85.5	81.7	79.9	78.4	71.6	68.6	67.0	66.6	70.7	72.9	73.0	72.5	67.2	62.8	54.1	51.3	51.4
800	82.3	82.9	83.0	79.2	77.4	75.9	69.0	66.1	64.6	64.2	68.3	70.6	70.7	70.2	64.8	60.4	51.7	48.8	48.9
1000	79.7	80.3	80.4	76.6	74.7	73.2	66.3	63.4	62.0	61.7	65.9	68.2	68.4	67.7	62.3	57.9	49.1	46.3	46.4
1250	77.0	77.6	77.7	73.9	71.9	70.4	63.5	60.7	59.4	59.1	63.3	65.7	65.8	65.1	59.7	55.2	46.4	43.6	43.7
1600	74.2	74.8	74.9	71.0	68.9	67.5	60.5	57.8	56.6	56.3	60.7	63.0	63.2	62.4	56.9	52.4	43.5	40.8	40.9
2000	71.1	71.8	71.8	67.9	65.8	64.3	57.4	54.7	53.7	53.5	57.9	60.3	60.6	59.7	54.0	49.5	40.5	37.8	37.8
2500	67.9	68.4	68.4	64.5	62.3	60.9	53.9	51.4	50.5	50.2	54.7	57.1	57.4	56.3	50.6	46.2	37.2	34.5	34.4
3150	64.3	64.8	64.8	60.9	58.6	57.1	50.2	47.7	46.9	46.7	51.2	53.6	53.9	52.6	46.8	42.6	33.6	31.0	30.7
4000	60.3	60.8	60.8	56.8	54.5	53.0	46.1	43.7	43.0	42.9	47.4	49.8	50.0	48.6	42.7	38.7	29.7	27.1	26.6
5000	55.9	56.3	56.2	52.3	49.9	48.5	41.6	39.3	38.8	38.6	43.2	45.6	45.7	44.1	38.2	34.4	25.3	22.7	22.2
6300	50.9	51.2	51.1	47.3	44.8	43.4	36.6	34.5	34.2	34.2	38.7	41.1	41.2	39.5	33.4	29.6	20.5	18.0	17.4
8000	45.5	45.6	45.4	41.7	39.4	37.9	31.5	29.9	30.1	30.2	34.8	37.3	37.6	35.9	29.5	25.1	15.7	13.4	13.4
10000	39.7	39.4	39.0	35.7	33.4	31.9	26.3	25.2	25.7	25.9	30.7	33.2	33.7	32.2	25.5	20.4	10.8	8.6	9.2
12500	33.5	32.8	32.0	29.3	27.2	25.6	20.9	20.3	21.1	21.5	26.2	28.8	29.4	28.2	21.3	15.5	5.6	3.7	5.1
16000	27.1	26.2	24.8	22.8	20.9	19.3	15.5	15.3	16.2	16.8	21.5	24.0	24.9	23.8	17.0	10.5	.5		1.1
20000	20.7	19.8	17.9	16.4	14.6	13.0	10.0	10.1	11.2	11.9	16.5	19.0	19.9	19.2	12.4	5.3			
25000	14.0	13.4	11.1	9.9	8.2	6.7	4.5	4.8	6.0	7.0	11.3	13.6	14.5	14.2	7.6	.1			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																													
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																													
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:									
(RA-5C AIRCRAFT										(TEMP = 59 F										(OMEGA 8.2									
(ENG. J79-GE-8C										(BAR PRESS = 29.92 IN HG										(TEST 74-004-002									
(GROUND RUNUP										(REL HUMID = 70 %										(RUN 01									
((DELTA N = 0.0 DB										(AIRCRAFT CODE 131									
(((OPERATION CODE 01013									
(((PROFILE VERSION A									
(((31 OCT 75									
(((PAGE 61									
DISTANCE																													
(FEET)																													
ANGLE (DEGREES)																													
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180										
200	99.2	100.2	100.2	96.0	93.6	92.7	84.8	81.5	79.1	78.4	82.2	83.7	83.7	84.7	79.7	76.0	67.7	64.7	64.4										
250	97.0	98.0	98.0	93.8	91.4	90.5	82.6	79.3	77.0	76.3	80.1	81.7	81.6	82.6	77.6	73.9	65.5	62.5	62.3										
315	94.8	95.8	95.8	91.6	89.1	88.3	80.4	77.0	74.8	74.2	78.0	79.5	79.5	80.5	75.5	71.7	63.3	60.4	60.2										
400	92.6	93.6	93.6	89.3	86.8	86.0	78.1	74.7	72.5	72.0	75.8	77.4	77.4	78.3	73.3	69.5	61.1	58.1	58.1										
500	90.3	91.3	91.3	87.0	84.5	83.6	75.7	72.4	70.2	69.7	73.6	75.2	75.2	76.1	71.1	67.2	58.7	55.8	55.8										
630	87.9	88.9	88.9	84.6	82.1	81.2	73.2	70.0	67.9	67.4	71.3	72.9	73.0	73.9	68.8	64.8	56.3	53.5	53.5										
800	85.4	86.5	86.5	82.1	79.5	78.7	70.7	67.4	65.4	65.0	68.9	70.6	70.7	71.5	66.4	62.4	53.9	51.0	51.1										
1000	82.9	83.9	83.9	79.5	76.9	76.0	68.0	64.8	62.9	62.5	66.5	68.2	68.4	69.1	63.9	59.9	51.3	48.5	48.5										
1250	80.2	81.3	81.2	76.7	74.1	73.2	65.2	62.0	60.2	59.8	63.9	65.7	65.8	66.5	61.2	57.2	48.6	45.8	45.8										
1600	77.3	78.4	78.3	73.8	71.1	70.3	62.2	59.2	57.4	57.1	61.3	63.0	63.2	63.8	58.4	54.4	45.7	43.0	43.0										
2000	74.3	75.4	75.2	70.7	67.9	67.1	59.0	56.1	54.6	54.2	58.5	60.3	60.6	61.0	55.6	51.5	42.7	40.0	39.9										
2500	71.0	72.0	71.9	67.4	64.5	63.7	55.6	52.8	51.3	51.0	55.3	57.1	57.4	57.7	52.1	48.2	39.4	36.7	36.5										
3150	67.4	68.4	68.2	63.7	60.8	59.9	51.9	49.1	47.7	47.5	51.8	53.6	53.9	54.0	48.4	44.6	35.8	33.1	32.8										
4000	62.8	63.7	63.5	59.1	56.2	55.3	47.4	44.8	43.7	43.5	47.8	49.8	50.0	49.6	43.9	40.3	31.5	28.8	28.3										
5000	57.7	58.4	58.3	54.0	51.2	50.1	42.6	40.1	39.3	39.1	43.5	45.6	45.7	44.9	39.1	35.5	26.6	24.0	23.4										
6300	52.1	52.6	52.5	48.4	45.7	44.5	37.3	35.0	34.5	34.5	38.9	41.1	41.2	40.0	34.1	30.4	21.4	18.9	18.3										
8000	46.1	46.3	46.1	42.3	39.8	38.4	31.9	30.2	30.2	30.3	35.0	37.3	37.6	36.2	29.8	25.5	16.2	13.8	13.8										
10000	39.7	39.4	39.0	35.7	33.4	31.9	26.3	25.2	25.7	25.9	30.7	33.2	33.7	32.2	25.5	20.4	10.8	8.6	9.2										
12500	33.5	32.8	32.0	29.3	27.2	25.6	20.9	20.3	21.1	21.5	26.2	28.8	29.4	28.2	21.3	15.5	5.6	3.7	5.1										
16000	27.1	26.2	24.8	22.6	20.9	19.3	15.5	15.3	16.2	16.8	21.5	24.0	24.9	23.8	17.0	10.5	.5		1.1										
20000	20.7	19.8	17.9	16.4	14.6	13.0	10.0	10.1	11.2	11.9	16.5	19.0	19.9	19.2	12.4	5.3													
25000	14.0	13.4	11.1	9.9	8.2	6.7	4.5	4.8	6.0	7.0	11.3	13.6	14.5	14.2	7.6	.1													

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (RA-5C AIRCRAFT
 (ENG. J79-GE-8C
 (GROUND RUNUP
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-004-002
 (RUN 01
 (AIRCRAFT CODE 131
 (OPERATION CODE 01013
 (PROFILE VERSION A
 (31 OCT 75
 (PAGE J1
 (

	NOISE LEVEL IN PNDB OR DBA										
	20	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
RA-5C AIRCRAFT																
ENG. J79-GE-8C																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 80% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-002																
RUN 02																
AIRCRAFT CODE 131																
OPERATION CODE 01019																
PROFILE VERSION A																
31 OCT 75																
PAGE C2																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>180
71	72	75	76	77	76	78	78	79	80	83	84	84	85	87	84	78
72	74	77	78	77	77	79	80	79	81	84	84	86	89	90	85	71
73	75	78	78	78	78	79	80	81	83	83	85	88	90	92	84	78
76	79	81	82	82	82	82	82	83	85	85	88	90	93	95	84	77
76	79	83	83	82	81	82	81	84	86	89	90	92	94	94	81	75
76	80	82	84	81	81	82	83	84	85	88	89	90	91	91	77	70
75	79	80	80	81	80	81	83	84	83	88	89	89	90	88	75	68
77	79	81	83	82	83	83	84	85	87	89	90	90	88	87	73	66
80	82	85	88	85	87	87	89	90	88	92	92	91	88	87	73	66
91	92	100	94	89	91	89	87	88	87	94	94	90	92	91	80	73
88	95	105	102	96	99	98	96	97	96	101	100	97	99	96	84	77
79	82	85	87	87	86	88	88	89	89	93	92	88	84	80	69	62
80	82	82	83	84	83	82	84	86	84	89	87	84	77	74	64	57
79	77	82	81	82	82	81	84	84	83	87	85	82	77	72	62	55
81	78	81	80	80	80	78	81	82	81	84	82	79	70	67	60	53
90	85	84	83	81	81	78	80	79	78	80	81	77	69	60	58	46
97	96	93	94	91	88	84	81	79	78	80	80	76	71	68	52	45
89	89	89	91	89	88	83	81	78	76	76	77	74	69	65	59	49
84	84	84	82	82	81	76	77	76	74	74	75	73	65	63	56	42
86	87	88	87	86	84	80	79	77	75	75	75	72	66	64	57	50
83	84	85	85	84	82	79	78	75	74	74	74	69	65	62	57	43
80	81	82	81	79	78	74	73	71	70	70	72	67	62	60	56	49
77	78	78	77	75	75	71	70	69	67	69	69	66	61	59	54	47
72	73	73	71	71	71	67	67	65	63	64	65	62	57	55	50	43
100	101	107	104	100	101	100	99	100	99	104	103	102	103	102	92	86
OVERALL	100	101	107	104	100	101	100	99	100	99	104	103	102	103	102	92

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECTS:																
RA-5C AIRCRAFT																
ENG. J79-GE-8C																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 80% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-002																
RUN 02																
AIRCRAFT CODE 131																
OPERATION CODE 01019																
PROFILE VERSION A																
31 OCT 75																
PAGE E2																
ANGLE (DEGREES)																
(DISTANCE)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	118.1	118.5	121.8	119.3	116.0	116.7	114.7	113.0	114.0	112.6	116.2	115.8	113.6	114.3	112.6	101.4
250	115.9	116.3	119.7	117.1	113.8	114.5	112.6	110.8	111.9	110.5	114.1	113.7	111.4	112.2	110.5	99.3
315	113.6	114.0	117.5	114.9	111.5	112.3	110.4	108.6	109.7	108.3	111.9	111.5	109.3	110.1	108.4	97.1
400	111.3	111.7	115.2	112.7	109.2	110.1	108.2	106.4	107.5	106.1	109.7	109.3	107.1	108.0	106.3	94.8
500	108.9	109.3	112.9	110.3	106.8	107.8	105.9	104.1	105.2	103.8	107.5	107.1	104.8	105.7	104.0	92.5
630	106.4	106.8	110.6	108.0	104.2	105.4	103.5	101.7	102.9	101.5	105.2	104.8	102.5	103.5	101.7	90.1
800	103.7	104.1	108.1	105.5	101.6	102.9	101.1	99.2	100.4	99.0	102.8	102.4	100.1	101.1	99.4	87.7
1000	101.0	101.3	105.6	102.9	98.8	100.3	98.5	96.7	97.9	96.5	100.4	99.9	97.6	98.7	96.9	85.1
1250	98.0	98.4	103.0	100.2	95.8	97.7	95.9	94.0	95.3	93.8	97.8	97.3	94.9	96.1	94.3	82.4
1600	94.8	95.2	100.2	97.4	92.7	94.8	93.1	91.2	92.5	91.1	95.1	94.5	92.2	93.3	91.5	79.6
2000	91.4	91.8	97.4	94.5	89.4	91.9	90.2	88.3	89.6	88.2	92.3	91.7	89.2	90.4	88.6	76.6
2500	87.7	88.0	94.3	91.3	86.1	88.7	87.1	85.1	86.5	85.0	89.2	88.6	86.0	87.3	85.4	73.3
3150	83.5	83.8	90.5	87.4	82.2	84.9	83.3	81.2	82.7	81.2	85.4	84.8	82.2	83.5	81.5	69.2
4000	78.2	78.4	85.3	82.4	77.3	79.9	78.4	76.5	78.0	76.4	80.8	80.1	77.4	78.5	76.4	63.8
5000	72.5	72.6	79.7	77.0	72.1	74.5	73.1	71.3	72.8	71.2	75.7	75.0	72.2	73.0	70.9	58.1
6300	66.0	66.3	74.0	71.3	66.5	69.0	67.6	65.9	67.4	65.8	70.5	69.7	66.8	67.5	65.2	52.1
8000	59.2	61.4	69.2	66.7	62.0	64.4	63.1	61.6	63.1	61.5	66.4	65.5	62.6	63.2	60.9	46.8
10000	52.1	56.2	64.2	61.8	57.0	59.4	58.3	56.9	58.4	56.7	61.9	61.1	58.0	58.6	56.2	42.0
12500	46.4	51.2	59.6	57.1	52.1	54.7	53.6	52.1	53.7	52.2	57.5	56.5	53.6	54.3	52.0	36.9
16000	40.0	45.5	54.6	51.9	46.4	49.5	48.5	47.0	48.6	46.9	52.6	51.7	48.4	49.6	47.2	31.3
20000	32.2	39.1	49.1	46.2	40.5	43.8	42.8	40.9	42.9	40.8	46.8	45.9	42.8	44.0	41.7	25.4
25000	25.2	31.7	42.8	39.8	32.8	36.9	35.8	33.3	35.3	33.3	39.9	38.8	34.6	36.5	33.5	15.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 131																			
RA-5C AIRCRAFT (ENGINE RUNUP, 80% RPM) TEMP = 59 F) OPERATION CODE 01019																			
ENG. J79-GE-8C (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP () REL HUMID = 70 %) 31 OCT 75																			
() DELTA N = 0.0 DB) PAGE F2																			
IDENTIFICATION:)																			
OMEGA 8.2)																			
TEST 74-004-002)																			
RUN 02)																			
ANGLE (DEGREES)																			
(DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
((FEET)	(((((((((((((((((((
(200	102.3	102.2	105.8	103.9	100.6	101.0	99.1	98.1	99.1	97.5	102.2	101.2	98.2	98.8	96.7	84.8	78.1	71.4	64.8
(250	100.1	100.0	103.7	101.8	98.4	98.9	97.1	96.0	97.0	95.4	100.1	99.2	96.2	96.8	94.7	82.7	76.1	69.4	62.7
(315	97.9	97.8	101.6	99.6	96.2	96.7	95.0	93.9	94.9	93.3	98.1	97.1	94.1	94.7	92.6	80.7	74.0	67.3	60.7
(400	95.7	95.5	99.4	97.4	94.0	94.6	92.8	91.8	92.8	91.2	96.0	95.1	92.0	92.7	90.6	78.6	71.9	65.3	58.6
(500	93.3	93.2	97.3	95.2	91.7	92.4	90.7	89.6	90.7	89.1	93.9	92.9	89.9	90.6	88.5	76.5	69.8	63.2	56.5
(630	90.9	90.8	95.1	93.0	89.4	90.1	88.5	87.4	88.5	86.9	91.8	90.8	87.8	88.4	86.4	74.4	67.7	61.0	54.4
(800	88.4	88.3	92.9	90.7	87.0	87.9	86.3	85.2	86.4	84.7	89.6	88.6	85.6	86.3	84.2	72.2	65.6	58.9	52.2
(1000	85.8	85.8	90.6	88.3	84.5	85.5	84.1	82.9	84.1	82.5	87.4	86.4	83.4	84.1	82.0	70.0	63.3	56.7	50.0
(1250	83.0	83.1	88.3	85.9	81.9	83.2	81.8	80.6	81.8	80.2	85.1	84.1	81.0	81.8	79.7	67.8	61.1	54.4	47.8
(1600	80.1	80.4	85.9	83.4	79.3	80.7	79.4	78.2	79.5	77.8	82.8	81.8	78.7	79.5	77.4	65.4	58.8	52.1	45.4
(2000	77.1	77.5	83.5	80.9	76.6	78.2	77.0	75.7	77.0	75.4	80.4	79.4	76.2	77.2	75.0	63.1	56.4	49.7	43.1
(2500	73.6	74.2	80.7	78.0	73.6	75.5	74.3	73.0	74.4	72.7	77.7	76.7	73.5	74.5	72.3	60.3	53.6	46.9	40.3
(3150	69.7	70.5	77.2	74.5	70.2	72.0	71.0	69.8	71.1	69.5	74.5	73.4	70.2	71.0	68.8	56.8	50.1	43.4	36.8
(4000	65.5	66.4	73.3	70.7	66.3	68.2	67.2	66.1	67.5	65.8	70.8	69.7	66.4	67.2	64.9	52.9	46.2	39.6	32.9
(5000	60.7	61.8	69.0	66.3	62.0	64.0	63.0	61.9	63.4	61.7	66.6	65.5	62.2	63.0	60.6	48.6	41.9	35.2	28.6
(6300	55.4	56.9	64.5	61.8	57.5	59.5	58.6	57.6	59.0	57.3	62.2	61.1	57.9	58.6	56.2	44.1	37.5	30.8	24.1
(8000	50.2	52.9	61.2	58.4	53.8	56.2	55.3	54.1	55.6	53.9	58.8	57.7	54.5	55.4	53.0	40.9	34.3	27.6	20.9
(10000	45.2	48.9	57.7	54.8	49.9	52.5	51.6	50.3	51.8	50.1	55.1	54.0	50.8	51.8	49.5	37.4	30.8	24.1	17.4
(12500	40.3	44.7	53.8	50.8	45.8	48.5	47.6	46.1	47.7	46.0	51.0	50.0	46.8	47.9	45.7	33.5	26.9	20.2	13.5
(16000	35.4	40.2	49.4	46.4	41.2	44.0	43.1	41.5	43.1	41.4	46.5	45.4	42.2	43.6	41.3	29.2	22.6	15.9	9.2
(20000	30.3	35.2	44.5	41.4	36.0	39.0	38.1	36.3	37.9	36.2	41.4	40.3	37.2	38.6	36.4	24.4	17.7	11.0	4.4
(25000	24.7	29.5	38.8	35.6	30.2	33.2	32.3	30.3	32.0	30.3	35.5	34.5	31.4	33.0	30.9	18.9	12.2	5.5	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
RA-5C AIRCRAFT																				
ENG. J79-GE-8C																				
GROUND RUNUP																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-002																				
RUN 02																				
AIRCRAFT CODE 131																				
OPERATION CODE 01019																				
PROFILE VERSION A																				
31 OCT 75																				
PAGE 62																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	104.9	105.2	110.4	107.5	103.0	104.4	102.3	100.5	101.8	100.1	104.6	103.6	100.8	102.4	100.4	88.2	81.5	74.9	68.2	
250	102.7	103.0	108.3	105.4	100.8	102.3	100.3	98.4	99.8	98.0	102.5	101.6	98.8	100.4	98.4	86.1	79.5	72.8	66.1	
315	100.5	100.8	106.2	103.2	98.6	100.1	98.2	96.3	97.7	95.9	100.5	99.5	96.7	98.3	96.3	84.1	77.4	70.8	64.1	
400	98.2	98.6	104.1	101.1	96.4	98.0	96.0	94.2	95.6	93.8	98.4	97.4	94.6	96.3	94.3	82.0	75.4	68.7	62.0	
500	95.9	96.2	101.9	98.8	94.1	95.8	93.9	92.0	93.4	91.7	96.3	95.3	92.5	94.2	92.2	79.9	73.3	66.6	59.9	
630	93.5	93.9	99.7	96.6	91.8	93.5	91.7	89.8	91.3	89.6	94.1	93.2	90.4	92.0	90.1	77.8	71.1	64.5	57.8	
800	91.0	91.4	97.5	94.3	89.4	91.3	89.5	87.6	89.1	87.4	92.0	91.0	88.2	89.9	87.9	75.6	69.0	62.3	55.6	
1000	88.4	88.8	95.3	91.9	86.9	88.9	87.3	85.3	86.9	85.1	89.8	88.8	85.9	87.7	85.7	73.4	66.8	60.1	53.4	
1250	85.6	86.2	93.0	89.5	84.3	86.6	85.0	83.0	84.6	82.8	87.5	86.5	83.6	85.4	83.4	71.2	64.5	57.8	51.2	
1500	82.7	83.4	90.6	87.0	81.7	84.1	82.6	80.6	82.2	80.5	85.2	84.2	81.2	83.1	81.1	68.9	62.2	55.5	48.9	
2000	79.6	80.5	88.2	84.5	79.0	81.6	80.2	78.1	79.8	78.0	82.8	81.8	78.8	80.8	78.7	66.5	59.8	53.1	46.5	
2500	76.2	77.3	85.4	81.7	76.0	78.9	77.5	75.4	77.1	75.4	80.1	79.1	76.1	78.1	76.0	63.7	57.0	50.4	43.7	
3150	72.3	73.6	81.9	78.1	72.6	75.4	74.2	72.2	73.9	72.1	76.8	75.8	72.7	74.6	72.5	60.2	53.5	46.9	40.2	
4000	67.5	68.8	77.1	73.5	68.2	70.9	69.8	68.0	69.7	67.9	72.7	71.6	68.5	70.1	67.9	55.6	49.0	42.3	35.6	
5000	62.2	63.6	71.8	68.5	63.4	66.0	64.9	63.4	65.0	63.2	68.0	66.9	63.8	65.1	62.9	50.6	44.0	37.3	30.5	
6300	56.4	58.1	66.4	63.3	58.4	60.9	59.9	58.6	60.1	58.4	63.2	62.1	58.9	60.0	57.7	45.5	38.8	32.2	25.5	
8000	50.8	53.5	62.2	59.1	54.3	56.8	55.9	54.6	56.1	54.4	59.3	58.2	55.0	56.1	53.8	41.6	34.9	28.3	21.6	
10000	45.2	48.9	57.7	54.8	49.9	52.5	51.6	50.3	51.8	50.1	55.1	54.0	50.8	51.8	49.5	37.4	30.8	24.1	17.4	
12500	40.3	44.7	53.8	50.8	45.8	48.5	47.6	46.1	47.7	46.0	51.0	50.0	46.8	47.9	45.7	33.5	26.9	20.2	13.5	
15000	35.4	40.2	49.4	46.4	41.2	44.0	43.1	41.5	43.1	41.4	46.5	45.4	42.2	43.6	41.3	29.2	22.6	15.9	9.2	
20000	30.3	35.2	44.5	41.4	36.0	39.0	38.1	36.3	37.9	36.2	41.4	40.3	37.2	38.6	36.4	24.4	17.7	11.0	4.4	
25000	24.7	29.5	38.8	35.6	30.2	33.2	32.3	30.5	32.0	30.3	35.5	34.5	31.4	33.0	30.9	18.9	12.2	5.5		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION: OMEGA 8.2
TEST 74-004-002
RUN 02
AIRCRAFT CODE 131
OPERATION CODE 01019
PROFILE VERSION A
31 OCT 75
PAGE J2

NOISE SOURCE/SUBJECT: RA-5C AIRCRAFT
ENG. J79-GE-8C
GROUND RUNUP

OPERATION: ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE = 250 FEET

P=PNLT A=AL T=ALT

	30	40	50	60	70	80	90	100	110	120	130
ANGLE											
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
>160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
RA-5C AIRCRAFT																
ENG. J79-GE-8C																
GROUND RUNUP																
OPERATION: MILITARY POWER, 100% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
METEROLOGY:																
AIRCRAFT CODE 131																
OPERATION CODE 01004																
PROFILE VERSION A																
31 OCT 75																
PAGE C3																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-002																
RUN 03																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>180
79	78	79	81	82	83	83	86	85	86	88	91	95	99	101	98	85
80	80	82	85	84	85	85	87	85	89	91	94	99	103	102	99	86
81	80	83	85	85	85	86	87	89	92	94	99	104	107	105	100	87
85	84	87	89	88	88	89	90	90	93	98	104	110	111	107	99	86
85	86	88	90	89	90	89	90	92	96	98	106	113	113	108	95	88
87	90	91	91	91	90	92	92	92	96	101	107	114	114	107	92	85
88	91	91	92	91	90	92	92	94	95	102	109	115	113	107	94	88
90	91	91	93	93	92	92	93	94	98	103	110	115	114	107	95	89
91	91	91	94	93	93	94	94	96	98	105	111	115	110	104	93	86
91	91	94	95	95	95	95	95	97	98	105	109	115	108	102	93	86
93	91	96	97	95	97	96	94	98	98	105	110	113	106	100	93	86
93	91	95	97	97	98	97	95	99	98	106	110	112	105	100	93	86
92	93	95	98	100	101	98	96	100	99	106	109	110	104	99	94	88
91	91	94	97	97	98	96	94	97	97	104	107	108	103	98	92	85
91	90	92	96	98	98	95	94	98	97	103	106	107	101	95	89	82
91	90	91	95	96	97	95	95	98	97	103	104	106	98	94	87	80
89	87	89	94	94	96	93	93	97	97	103	104	105	98	93	85	79
89	86	89	92	93	95	92	92	94	96	101	102	102	95	92	83	77
86	83	86	89	91	93	90	90	94	94	99	99	100	93	90	81	74
86	84	85	89	90	92	89	89	93	94	99	98	101	93	89	81	74
86	83	84	87	88	90	88	88	91	91	97	96	98	91	87	79	72
83	80	81	85	85	87	84	84	87	88	93	93	95	88	84	75	69
82	81	80	82	84	85	82	81	84	85	90	91	93	85	82	73	66
79	77	77	79	80	81	78	77	79	81	86	86	89	81	77	69	56
103	102	104	107	107	108	107	106	109	109	116	120	124	122	116	108	94
OVERALL																88

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNOL)															IDENTIFICATION:									
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															) OMEGA 8.2									
NOISE SOURCE/SUBJECT:															) TEST 74-004-802									
RA-5C AIRCRAFT															) RUN 03									
ENG. J79-GE-8C															) METEOROLOGY:									
GROUND RUNUP															) TEMP = 59 F									
															) BAR PRESS = 29.92 IN HG									
															) REL HUMID = 70 %									
															) DELTA N = 0.0 DB									
															) PAGE 03									
DISTANCE (FEET)															ANGLE (DEGREES)									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180					
200	116.0	114.4	116.5	119.5	120.0	121.6	119.4	119.1	121.9	125.6	129.3	130.4	133.6	129.4	124.0	115.0	108.3	101.6	94.7					
250	113.7	112.2	114.3	117.3	117.8	119.4	117.2	116.9	119.7	120.4	126.1	128.3	131.4	127.3	121.9	112.8	106.1	99.4	92.5					
315	111.4	109.9	112.1	115.0	115.5	117.1	114.9	114.6	117.4	118.1	123.8	126.1	129.3	125.1	119.8	110.7	104.0	97.2	90.3					
400	109.1	107.6	109.7	112.7	113.2	114.8	112.6	112.3	115.1	115.8	121.5	123.8	127.1	123.0	117.6	108.5	101.7	94.9	87.9					
500	106.6	105.1	107.3	110.3	110.8	112.3	110.2	109.8	112.7	113.4	119.1	121.4	124.8	120.7	115.3	106.2	99.5	92.6	85.6					
630	104.1	102.6	104.8	107.7	108.2	109.8	107.6	107.3	110.2	110.8	116.6	119.0	122.4	118.2	112.8	103.8	97.0	90.1	83.1					
800	101.4	100.0	102.1	105.1	105.6	107.1	105.0	104.6	107.6	108.2	114.0	116.4	120.0	115.6	110.2	101.4	94.5	87.5	80.5					
1000	98.5	97.2	99.3	102.3	102.9	104.3	102.1	101.8	104.8	105.4	111.3	113.8	117.5	112.8	107.4	98.8	91.9	84.9	77.9					
1250	95.5	94.3	96.3	99.3	100.0	101.2	99.2	98.9	101.9	102.4	108.3	111.0	114.8	109.8	104.5	96.0	89.0	82.0	75.1					
1600	92.4	91.2	93.4	96.4	96.9	98.0	96.1	95.8	98.7	99.2	105.2	108.2	111.9	106.7	101.5	93.0	86.0	79.0	72.0					
2000	89.1	87.8	90.3	93.1	93.6	94.7	92.8	92.4	95.3	95.8	101.8	105.1	108.9	103.6	98.4	89.7	82.7	75.8	68.8					
2500	85.4	84.3	87.0	89.5	90.2	91.3	89.2	88.8	91.7	92.0	98.2	101.8	105.2	99.8	94.5	86.2	79.2	72.3	65.2					
3150	81.4	80.7	83.1	85.7	86.5	87.6	85.5	84.8	87.8	87.8	94.5	98.0	101.0	95.6	90.3	82.4	75.4	68.4	61.2					
4000	76.9	76.5	78.8	81.7	82.6	83.7	81.5	80.5	83.7	83.7	90.3	93.8	96.7	91.1	85.8	78.2	71.3	64.1	56.8					
5000	72.2	72.0	74.3	77.2	78.1	79.2	77.0	75.9	79.2	79.2	85.9	89.1	92.0	86.3	81.0	73.7	66.6	59.4	51.8					
6300	67.3	67.1	69.4	72.3	73.3	74.4	72.1	71.0	74.3	74.2	81.0	84.2	87.1	81.4	76.0	68.8	61.6	54.3	46.2					
8000	62.8	62.7	65.0	67.9	68.8	69.9	67.7	66.5	69.9	69.7	76.7	80.2	83.3	77.6	72.1	64.6	57.2	49.6	41.0					
10000	58.2	57.9	60.6	63.1	64.0	65.1	62.9	61.7	65.0	65.0	71.9	75.3	79.2	73.7	68.0	59.9	52.5	43.9	34.8					
12500	53.3	52.7	55.8	58.0	58.6	59.6	57.5	56.3	59.7	59.7	67.0	71.4	74.8	69.4	63.6	54.7	46.7	37.4	27.8					
16000	47.6	46.9	50.3	52.6	52.5	53.5	51.8	50.5	53.9	54.2	61.7	66.4	70.0	64.7	58.7	49.4	40.2	30.7	21.3					
20000	40.8	39.5	44.1	46.4	45.4	46.6	45.4	43.8	48.0	48.1	55.9	60.9	64.7	59.5	53.2	42.9	32.9	21.3	9.5					
25000	33.0	31.2	36.3	38.8	37.1	38.6	37.7	36.2	40.1	40.8	49.5	54.7	58.8	53.8	46.9	35.2	22.6	6.9	.4					

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																		
NOISE SOURCE/SUBJECT:																		
RA-5C AIRCRAFT																		
ENG. J79-GE-8C																		
GROUND RUNUP																		
IDENTIFICATION:																		
OMEGA 8.2																		
TEST 74-004-002																		
RUN 03																		
AIRCRAFT CODE 131																		
OPERATION CODE 01004																		
PROFILE VERSION A																		
31 OCT 75																		
PAGE E3																		
METEOROLOGY:																		
TEMP = 59 F																		
BAR PRESS = 29.92 IN HG																		
REL HUMID = 70 %																		
DELTA N = 0.0 DB																		
ANGLE (DEGREES)																		
DISTANCE																		
(FEET)																		
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>180	
200	116.0	114.4	116.5	119.5	120.0	121.6	119.4	119.1	121.9	122.6	128.3	130.4	133.6	129.4	124.0	115.0	108.3	101.6
250	113.7	112.2	114.3	117.3	117.8	119.4	117.2	116.9	119.7	120.4	126.1	128.3	131.4	127.3	121.9	112.8	106.1	99.4
315	111.4	109.9	112.1	115.0	115.5	117.1	114.9	114.6	117.4	118.1	123.8	126.1	129.3	125.1	119.8	110.7	104.0	97.2
400	109.1	107.6	109.7	112.7	113.2	114.8	112.6	112.3	115.1	115.8	121.5	123.8	127.1	123.0	117.6	108.5	101.7	94.9
500	106.6	105.1	107.3	110.3	110.8	112.3	110.2	109.8	112.7	113.4	119.1	121.4	124.8	120.7	115.3	106.2	99.5	92.6
630	104.1	102.6	104.8	107.7	108.2	109.8	107.6	107.3	110.2	110.8	116.6	119.0	122.4	118.2	112.8	103.8	97.0	90.1
800	101.4	100.0	102.1	105.1	105.6	107.1	105.0	104.6	107.6	108.2	114.0	116.4	120.0	115.6	110.2	101.4	94.5	87.5
1000	98.5	97.2	99.3	102.3	102.9	104.3	102.1	101.8	104.8	105.4	111.3	113.8	117.5	112.8	107.4	98.8	91.9	84.9
1250	95.5	94.3	96.3	99.5	100.0	101.2	99.2	98.9	101.9	102.4	108.3	111.0	114.8	109.8	104.5	96.0	89.0	82.0
1500	92.4	91.2	93.4	96.4	96.9	98.0	96.1	95.8	98.7	99.2	105.2	108.2	111.9	106.7	101.5	93.0	86.0	79.0
2000	89.1	87.8	90.3	93.1	93.6	94.7	92.8	92.4	95.3	95.8	101.8	105.1	108.9	103.6	98.4	89.7	82.7	75.8
2500	85.4	84.3	87.0	89.5	90.2	91.3	89.2	88.8	91.7	92.0	98.2	101.8	105.2	99.8	94.5	86.2	79.2	72.3
3150	81.4	80.7	83.1	85.7	86.5	87.6	85.5	84.8	87.8	88.0	94.5	98.0	101.0	95.6	90.3	82.4	75.4	68.4
4000	76.9	76.5	78.8	81.7	82.6	83.7	81.5	80.5	83.7	83.7	90.3	93.8	96.7	91.1	85.8	78.2	71.3	64.1
5000	72.2	72.0	74.3	77.2	78.1	79.2	77.0	75.9	79.2	79.2	85.9	89.1	92.0	86.3	81.0	73.7	66.6	59.4
6300	67.3	67.1	69.4	72.3	73.3	74.4	72.1	71.0	74.3	74.2	81.0	84.2	87.1	81.4	76.0	68.8	61.6	54.3
8000	62.8	62.7	65.0	67.9	68.8	69.9	67.7	66.5	69.9	69.7	76.7	80.2	83.3	77.6	72.1	64.6	57.2	49.6
10000	58.2	57.9	60.6	63.1	64.0	65.1	62.9	61.7	65.0	65.0	71.9	75.9	79.2	73.7	68.0	59.9	52.5	43.9
12500	53.3	52.7	55.8	58.0	58.6	59.6	57.5	56.3	59.7	59.7	67.0	71.4	74.8	69.4	63.6	54.7	46.7	37.4
16000	47.6	46.9	50.3	52.6	52.5	53.5	51.8	50.5	53.9	54.2	61.7	66.4	70.0	64.7	58.7	49.4	40.2	30.7
20000	40.8	39.5	44.1	46.4	45.4	46.6	45.4	43.8	48.0	48.1	55.9	60.9	64.7	59.5	53.2	42.9	32.9	21.3
25000	33.0	31.2	36.3	38.8	37.1	38.6	37.7	36.2	40.1	40.8	49.5	54.7	58.8	53.8	46.9	35.2	22.6	6.9
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	
NOISE SOURCE/SUBJECT:																	
RA-5C AIRCRAFT																	
ENG. J79-GE-8C																	
GROUND RUNUP																	
OPERATION:																	
MILITARY POWER, 100% RPM																	
SINGLE ENGINE																	
METEOROLOGY:																	
TEMP = 59 F																	
BAR PRESS = 29.92 IN HG																	
REL HUMID = 70 %																	
DELTA N = 0.0 DB																	
IDENTIFICATION:																	
OMEGA 8.2																	
TEST 74-004-002																	
RUN 03																	
AIRCRAFT CODE 131																	
OPERATION CODE 01004																	
PROFILE VERSION A																	
31 OCT 75																	
PAGE F3																	
DISTANCE																	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160 >170 >180
200	103.2	102.2	104.5	107.6	108.4	109.6	107.1	106.4	109.6	109.6	116.0	118.6	121.2	115.8	110.3	102.3	95.7 89.0 02.3
250	101.0	100.0	102.4	105.5	106.3	107.5	105.0	104.2	107.5	107.5	113.8	116.5	119.1	113.7	108.2	100.3	93.6 86.9 80.3
315	98.9	97.9	100.3	103.3	104.1	105.3	102.9	102.1	105.3	105.3	111.7	114.4	117.0	111.6	106.1	98.2	91.5 84.8 78.2
400	96.7	95.7	98.1	101.1	101.9	103.1	100.7	99.9	103.1	103.0	109.5	112.3	114.8	109.5	104.0	96.0	89.4 82.7 76.0
500	94.4	93.5	95.9	98.9	99.7	100.8	98.4	97.6	100.9	100.8	107.2	110.1	112.7	107.3	101.8	93.9	87.2 80.5 73.9
630	92.1	91.2	93.6	96.6	97.4	98.6	96.1	95.3	98.6	98.5	105.0	107.8	110.4	105.0	99.5	91.6	85.0 78.3 71.6
800	89.7	88.9	91.3	94.3	95.1	96.2	93.8	93.0	96.2	96.1	102.6	105.5	108.2	102.7	97.1	89.4	82.7 76.0 69.4
1000	87.3	86.5	89.0	91.9	92.7	93.8	91.4	90.5	93.8	93.6	100.2	103.2	105.8	100.3	94.7	87.0	80.4 73.7 67.0
1250	84.8	84.0	86.5	89.4	90.2	91.3	88.9	88.0	91.2	91.0	97.7	100.7	103.3	97.7	92.1	84.6	77.9 71.2 64.6
1600	82.2	81.4	84.0	86.9	87.6	88.7	86.3	85.4	88.6	88.4	95.1	98.2	100.8	95.0	89.5	82.0	75.4 68.7 62.0
2000	79.5	78.7	81.4	84.2	84.9	85.9	83.6	82.6	85.9	85.6	92.4	95.5	98.1	92.2	86.7	79.4	72.8 66.1 59.4
2500	76.5	75.8	78.5	81.3	82.0	83.1	80.7	79.7	83.0	82.6	89.5	92.6	95.1	89.1	83.6	76.5	69.9 63.2 56.5
3150	73.2	72.7	75.4	78.1	78.9	79.9	77.6	76.4	79.8	79.4	86.3	89.5	91.8	85.7	80.3	73.4	66.7 60.1 53.4
4000	69.6	69.2	71.9	74.7	75.5	76.5	74.1	72.9	76.3	75.8	82.8	85.9	88.1	81.9	76.6	70.0	63.3 56.6 50.0
5000	65.6	65.3	67.9	70.7	71.6	72.6	70.2	68.9	72.3	71.8	78.8	81.9	84.0	77.8	72.5	66.0	59.4 52.7 46.0
6300	61.2	61.0	63.7	66.4	67.3	68.3	65.9	64.5	67.9	67.4	74.5	77.5	79.6	73.4	68.2	61.8	55.1 48.4 41.8
8000	57.1	56.9	59.7	62.3	63.1	64.1	61.8	60.4	63.8	63.3	70.4	73.6	75.8	69.6	64.3	57.8	51.2 44.5 37.8
10000	52.7	52.5	55.3	57.8	58.5	59.6	57.3	55.9	59.3	58.8	66.0	69.4	71.7	65.5	60.2	53.5	46.9 40.2 33.5
12500	47.9	47.7	50.5	52.9	53.4	54.5	52.4	51.0	54.4	54.0	61.2	64.7	67.2	61.1	55.7	48.8	42.1 35.5 28.8
16000	42.6	42.3	45.3	47.5	47.8	49.0	47.0	45.6	49.0	48.6	55.9	59.6	62.4	56.4	50.9	43.6	36.9 30.3 23.6
20000	36.9	36.4	39.5	41.5	41.6	42.8	41.1	39.7	43.1	42.8	50.1	54.0	57.1	51.3	45.7	37.9	31.3 24.6 17.9
25000	30.6	29.9	33.0	34.9	34.8	35.9	34.5	33.2	36.5	36.3	43.6	47.8	51.3	46.0	40.2	31.9	25.3 18.6 11.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	
NOISE SOURCE/SUBJECT:																	
RA-5C AIRCRAFT																	
ENG. J79-GE-8C																	
GROUND RUNUP																	
IDENTIFICATION:																	
OMEGA 8.2																	
TEST 74-004-002																	
RUN 03																	
AIRCRAFT CODE 131																	
OPERATION CODE 01004																	
PROFILE VERSION A																	
31 OCT 75																	
PAGE G3																	
METEOROLOGY:																	
TEMP = 59 F																	
BAR PRESS = 29.92 IN HG																	
REL HUMID = 70 %																	
DELTA N = 0.0 DB																	
ANGLE (DEGREES)																	
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
(FEET)																	
200	103.2	102.2	104.5	107.6	108.4	109.6	107.1	106.4	109.6	109.6	116.0	118.6	121.2	115.8	110.3	102.3	95.7
250	101.0	100.0	102.4	105.5	106.3	107.5	105.0	104.2	107.5	107.4	113.8	116.5	119.1	113.7	108.2	100.3	93.6
315	98.9	97.9	100.3	103.3	104.1	105.3	102.9	102.1	105.3	105.3	111.7	114.4	117.0	111.5	106.1	98.2	91.5
400	96.7	95.7	98.1	101.1	101.9	103.1	100.7	99.9	103.1	103.0	109.5	112.3	114.8	109.5	104.0	96.0	89.4
500	94.4	93.5	95.9	98.9	99.7	100.8	98.4	97.6	100.9	100.8	107.2	110.1	112.7	107.3	101.8	93.9	87.2
630	92.1	91.2	93.6	96.6	97.4	98.6	96.1	95.3	98.6	98.5	105.0	107.8	110.4	105.0	99.5	91.6	85.0
800	89.7	88.9	91.3	94.3	95.1	96.2	93.8	93.0	96.2	96.1	102.6	105.5	108.2	102.7	97.1	89.4	82.7
1000	87.3	86.5	89.0	91.9	92.7	93.8	91.4	90.5	93.8	93.6	100.2	103.2	105.8	100.3	94.7	87.0	80.4
1250	84.8	84.0	86.5	89.4	90.2	91.3	88.9	88.0	91.2	91.0	97.7	100.7	103.3	97.7	92.1	84.6	77.9
1600	82.2	81.4	84.0	86.9	87.6	88.7	86.3	85.4	88.6	88.4	95.1	98.2	100.8	95.0	89.5	82.0	75.4
2000	79.5	78.7	81.4	84.2	84.9	85.9	83.6	82.6	85.9	85.6	92.4	95.5	98.1	92.2	86.7	79.4	72.8
2500	76.5	75.8	78.5	81.3	82.0	83.1	80.7	79.7	83.0	82.6	89.5	92.6	95.1	89.1	83.6	76.5	69.9
3150	73.2	72.7	75.4	78.1	78.9	79.9	77.6	76.4	79.8	79.4	86.3	89.5	91.8	85.7	80.3	73.4	66.7
4000	69.6	69.2	71.9	74.7	75.5	76.5	74.1	72.9	76.3	75.8	82.8	85.9	88.1	81.9	76.6	70.0	63.3
5000	65.6	65.3	67.9	70.7	71.6	72.6	70.2	68.9	72.3	71.8	78.8	81.9	84.0	77.8	72.5	66.0	59.4
6300	61.2	61.0	63.7	66.4	67.3	68.3	65.9	64.5	67.9	67.4	74.5	77.5	79.6	73.4	68.2	61.8	55.1
8000	57.1	56.9	59.7	62.3	63.1	64.1	61.8	60.4	63.8	63.3	70.4	73.6	75.8	69.6	64.3	57.8	51.2
10000	52.7	52.5	55.3	57.8	58.5	59.6	57.3	55.9	59.3	58.8	66.0	69.4	71.7	65.5	60.2	53.5	46.9
12500	47.9	47.7	50.5	52.9	53.4	54.5	52.4	51.0	54.4	54.0	61.2	64.7	67.2	61.1	55.7	48.8	42.1
16000	42.6	42.3	45.3	47.5	47.8	49.0	47.0	45.6	49.0	48.6	55.9	59.6	62.4	56.4	50.9	43.6	36.9
20000	36.9	36.4	39.5	41.5	41.6	42.8	41.1	39.7	43.1	42.8	50.1	54.0	57.1	51.3	45.7	37.9	31.3
25000	30.6	29.9	33.0	34.9	34.8	35.9	34.5	33.2	36.5	36.3	43.6	47.8	51.3	46.0	40.2	31.9	25.3
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-004-002
 (RUN 03
 (NOISE SOURCE/SUBJECT:
 (RA-5C AIRCRAFT
 (ENG. J79-GE-8C
 (GROUND RUNUP
 (OPERATION:
 (MILITARY POWER, 100% RPM
 (SINGLE ENGINE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 (AIRCRAFT CODE 131
 (OPERATION CODE 01004
 (PROFILE VERSION A
 (31 OCT 75
 (PAGE J3

	P=PNLT											A=AL											T=ALT												
	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140		
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	
110	
120	
130	
140	
150	
>160	
>170	
>180	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
RA-5C AIRCRAFT																
ENG. J79-GE-8C																
GROUND RUNUP																
OPERATION:																
AFTERBURNER, MAX POWER																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-002																
RUN 04																
AIRCRAFT CODE 131																
OPERATION CODE 01003																
PROFILE VERSION A																
31 OCT 75																
PAGE C4																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160 >170 >180
50	89	88	90	91	92	94	94	95	97	99	105	107	108	106	98	91 84 78
63	89	91	92	95	94	96	95	96	97	101	107	111	110	105	96	89 83 76
80	90	92	93	95	94	95	95	97	100	103	109	114	112	105	95	88 82 75
100	92	94	97	96	97	98	98	99	101	107	114	117	114	104	93	86 79 73
125	93	96	97	98	98	98	99	100	102	110	118	118	114	101	90	84 77 70
160	93	98	99	100	100	100	101	102	106	111	119	119	113	99	90	83 77 70
200	92	99	98	99	100	100	101	103	105	113	120	119	113	98	91	84 78 71
250	94	100	99	100	99	101	101	102	104	107	115	120	111	99	90	83 77 70
315	94	97	98	100	100	101	103	105	108	116	120	118	108	97	89	83 76 69
400	96	97	99	101	100	102	103	105	108	116	118	117	106	95	91	84 78 71
500	96	96	99	101	100	102	103	105	109	116	119	115	106	94	90	83 77 70
630	94	96	98	100	100	102	103	105	110	115	118	114	108	93	89	82 76 69
800	93	96	98	100	101	102	103	104	109	114	117	113	107	91	88	81 75 68
1000	93	94	96	100	100	101	103	106	109	113	116	112	106	91	87	80 73 67
1250	93	94	97	100	100	101	102	104	106	109	112	115	104	90	86	79 72 66
1600	94	94	97	99	99	101	102	104	106	107	111	113	102	88	84	77 71 64
2000	92	92	96	98	98	100	101	103	106	107	110	113	109	87	83	77 70 63
2500	93	92	96	98	97	99	100	103	105	108	111	107	99	86	83	76 69 63
3150	88	88	92	95	94	97	98	99	102	103	107	109	106	84	81	74 67 61
4000	88	88	90	94	93	96	97	99	102	103	107	109	106	84	80	73 66 60
5000	86	87	89	92	92	94	95	97	101	101	105	108	104	82	78	72 65 58
6300	84	84	86	89	88	91	92	94	98	99	103	106	102	79	75	68 61 55
8000	82	83	84	86	85	88	89	91	95	96	101	104	99	77	72	65 59 52
10000	78	79	80	82	81	84	85	87	91	92	98	101	95	73	68	61 54 48
OVERALL	106	108	110	112	111	113	114	115	117	120	125	130	128	122	113	104 97 91 84

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PN08)																	IDENTIFICATION:		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	OMEGA 8.2		
																	TEST 74-004-002		
																	RUN 04		
NOISE SOURCE/SUBJECT:																	METEOROLOGY:		
(RA-5C AIRCRAFT)																	TEMP = 59 F		
(ENG. J79-GE-8C)																	BAR PRESS = 29.92 IN HG		
(GROUND RUNUP)																	REL HUMID = 70 %		
																	DELTA N = 0.0 DB		
																	AIRCRAFT CODE 131		
																	OPERATION CODE 01003		
																	PROFILE VERSION A		
																	31 OCT 75		
																	PAGE 04		
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>180	
200	119.2	120.0	122.5	124.7	124.2	126.1	127.1	128.6	131.1	132.4	136.8	140.3	137.5	130.2	117.9	112.3	105.7	98.9	92.0
250	117.0	117.8	120.4	122.5	122.0	123.9	124.9	126.4	128.6	130.2	134.7	138.2	135.4	128.1	115.8	110.1	103.5	96.7	89.7
315	114.7	115.6	118.1	120.2	119.8	121.6	122.7	124.1	126.6	128.0	132.4	135.9	133.2	125.9	113.7	107.9	101.2	94.4	87.4
400	112.4	113.2	115.8	117.9	117.5	119.3	120.3	121.8	124.2	125.7	130.1	133.6	131.0	123.7	111.5	105.7	98.9	92.0	85.0
500	110.0	110.8	113.4	115.5	115.0	116.9	117.9	119.4	121.8	123.3	127.7	131.3	128.7	121.3	109.2	103.3	96.5	89.5	82.6
630	107.4	108.3	110.9	113.0	112.5	114.4	115.4	116.8	119.3	120.8	125.3	128.8	126.3	118.9	106.9	100.8	93.9	86.9	80.0
800	104.8	105.6	108.2	110.3	109.9	111.7	112.8	114.2	116.6	118.2	122.7	126.2	123.8	116.2	104.4	98.3	91.4	84.4	77.4
1000	102.0	102.8	105.4	107.5	107.1	108.9	110.0	111.4	113.8	115.5	120.0	123.5	121.2	113.6	101.7	95.7	88.7	81.7	74.8
1250	98.9	99.8	102.4	104.5	104.1	105.9	106.9	108.3	110.7	112.5	117.2	120.7	118.5	110.8	98.8	92.9	85.9	78.9	72.0
1600	95.6	96.5	99.1	101.3	101.0	102.7	103.7	105.1	107.5	109.4	114.3	117.8	115.6	107.9	95.6	89.9	82.9	75.9	69.0
2000	92.1	93.3	95.6	97.8	97.6	99.3	100.3	101.7	104.1	106.0	111.2	114.7	112.6	104.7	92.4	86.7	79.7	72.8	65.7
2500	88.3	89.4	92.0	94.1	94.0	95.6	96.7	98.1	100.3	102.2	107.8	111.3	108.8	101.3	88.5	82.8	75.9	68.9	61.6
3150	84.3	85.5	88.0	90.1	90.0	91.6	92.7	94.0	96.3	98.5	103.9	107.3	104.6	97.5	84.3	78.7	71.8	64.6	57.4
4000	79.9	81.2	83.6	85.7	85.5	87.3	88.3	89.6	91.9	94.3	99.6	103.0	100.2	93.1	79.6	74.2	67.2	60.0	52.3
5000	75.1	76.5	78.8	81.1	80.9	82.5	83.6	84.8	87.0	89.6	94.9	98.3	95.4	88.3	74.8	69.3	62.2	54.7	46.6
6300	70.0	71.6	73.8	76.1	76.0	77.5	78.6	79.5	81.8	84.7	90.0	93.4	90.5	83.4	69.7	64.2	56.9	49.0	40.4
8000	65.8	67.2	69.7	71.7	71.6	73.3	74.3	74.9	77.3	80.4	86.0	89.5	86.6	79.5	65.9	60.1	52.5	44.3	35.5
10000	61.3	62.7	65.3	67.2	66.8	68.7	69.8	70.1	72.4	75.9	81.8	85.3	82.6	75.3	61.7	55.7	47.4	38.5	29.4
12500	56.5	57.9	60.6	62.4	61.7	63.7	64.8	65.0	67.4	71.0	77.3	80.9	78.2	70.8	57.1	50.8	41.9	32.9	21.4
16000	51.0	52.5	55.2	57.1	56.4	58.2	59.4	59.4	62.1	65.7	72.4	76.1	73.5	65.8	52.1	44.9	35.3	25.2	9.6
20000	44.8	46.6	49.4	51.2	50.5	52.4	53.6	53.5	56.2	59.9	66.9	70.8	68.3	60.4	46.3	37.5	28.1	15.4	
25000	36.8	39.3	42.4	44.2	43.2	45.6	47.0	46.8	49.6	53.5	60.7	64.9	62.6	54.6	39.4	29.1	17.0	5.7	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
RA-5C AIRCRAFT																				
ENG. J79-GE-8C																				
GROUND RUNUP																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-002																				
RUN 04																				
AIRCRAFT CODE 131																				
OPERATION CODE 01003																				
PROFILE VERSION A																				
31 OCT 75																				
PAGE E4																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE																				
(FEET)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	119.2	120.0	122.5	124.7	124.2	126.1	127.1	128.6	131.1	132.4	136.8	140.3	137.5	130.2	117.9	112.3	105.7	98.9	92.0	
250	117.0	117.8	120.4	122.5	122.0	123.9	124.9	126.4	128.8	130.2	134.7	138.2	135.4	128.1	115.8	110.1	103.5	96.7	89.7	
315	114.7	115.6	118.1	120.2	119.8	121.6	122.7	124.1	126.6	128.0	132.4	135.9	133.2	125.9	113.7	107.9	101.2	94.4	87.4	
400	112.4	113.2	115.8	117.9	117.5	119.3	120.3	121.8	124.2	125.7	130.1	133.6	131.0	123.7	111.5	105.7	98.9	92.0	85.0	
500	110.0	110.8	113.4	115.5	115.0	116.9	117.9	119.4	121.8	123.3	127.7	131.3	128.7	121.3	109.2	103.3	96.5	89.5	82.6	
630	107.4	108.3	110.9	113.0	112.5	114.4	115.4	116.8	119.3	120.8	125.3	128.8	126.3	118.9	106.9	100.8	93.9	86.9	80.0	
800	104.8	105.6	108.2	110.3	109.9	111.7	112.8	114.2	116.6	118.2	122.7	126.2	123.8	116.2	104.4	98.3	91.4	84.4	77.4	
1000	102.0	102.8	105.4	107.5	107.1	108.9	110.0	111.4	113.8	115.5	120.0	123.5	121.2	113.6	101.7	95.7	88.7	81.7	74.8	
1250	98.9	99.8	102.4	104.5	104.1	105.9	106.9	108.3	110.7	112.5	117.2	120.7	118.5	110.8	98.8	92.9	85.9	78.9	72.0	
1600	95.6	96.5	99.1	101.3	101.0	102.7	103.7	105.1	107.5	109.4	114.3	117.8	115.6	107.9	95.6	89.9	82.9	75.9	69.0	
2000	92.1	93.3	95.6	97.8	97.6	99.3	100.3	101.7	104.1	106.0	111.2	114.7	112.6	104.7	92.4	86.7	79.7	72.8	65.7	
2500	88.3	89.4	92.0	94.1	94.0	95.6	96.7	98.1	100.3	102.2	107.8	111.3	108.8	101.3	88.5	82.8	75.9	68.9	61.6	
3150	84.3	85.5	88.0	90.1	90.0	91.6	92.7	94.0	96.3	98.5	103.9	107.3	104.6	97.5	84.3	78.7	71.8	64.6	57.4	
4000	79.9	81.2	83.6	85.7	85.5	87.3	88.3	89.6	91.9	94.3	99.6	103.0	100.2	93.1	79.6	74.2	67.2	60.0	52.3	
5000	75.1	76.5	78.8	81.1	80.9	82.5	83.6	84.8	87.0	89.6	94.9	98.3	95.4	88.3	74.8	69.3	62.2	54.7	46.6	
6300	70.0	71.6	73.8	76.1	76.0	77.5	78.6	79.5	81.8	84.7	90.0	93.4	90.5	83.4	69.7	64.2	56.9	49.0	40.4	
8000	65.8	67.2	69.7	71.7	71.6	73.3	74.3	74.9	77.3	80.4	86.0	89.5	86.6	79.5	65.9	60.1	52.5	44.3	35.5	
10000	61.3	62.7	65.3	67.2	66.8	68.7	69.8	70.1	72.4	75.9	81.8	85.3	82.6	75.3	61.7	55.7	47.4	38.5	29.4	
12500	56.5	57.9	60.6	62.4	61.7	63.7	64.8	65.0	67.4	71.0	77.3	80.9	78.2	70.8	57.1	50.8	41.9	32.9	21.4	
16000	51.0	52.5	55.2	57.1	56.4	58.2	59.4	59.4	62.1	65.7	72.4	76.1	73.5	65.8	52.1	44.9	35.3	25.2	9.6	
20000	44.8	46.6	49.4	51.2	50.5	52.4	53.6	53.5	56.2	59.9	66.9	70.8	68.3	60.4	46.3	37.5	28.1	15.4		
25000	36.8	39.3	42.4	44.2	43.2	45.6	47.0	46.8	49.6	53.5	60.7	64.9	62.6	54.6	39.4	29.1	17.0	5.7		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
RA-5C AIRCRAFT																			
ENG. J79-GE-8C																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-002																			
RUN 04																			
AIRCRAFT CODE 131																			
OPERATION CODE 01003																			
PROFILE VERSION A																			
31 OCT 75																			
PAGE F4																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	105.6	106.6	109.0	111.6	111.3	113.1	114.2	115.5	118.0	120.1	124.8	127.7	124.6	116.9	103.5	98.7	92.0	85.4	78.7
250	103.5	104.5	106.9	109.4	109.2	110.9	112.0	113.3	115.8	117.9	122.7	125.6	122.5	114.9	101.4	96.6	89.9	83.3	76.6
315	101.3	102.4	104.8	107.3	107.1	108.8	109.9	111.1	113.6	115.8	120.5	123.5	120.4	112.8	99.3	94.5	87.8	81.1	74.5
400	99.1	100.2	102.6	105.1	104.9	106.6	107.7	108.9	111.4	113.6	118.3	121.3	118.3	110.6	97.2	92.3	85.7	79.0	72.3
500	96.8	98.0	100.3	102.9	102.6	104.3	105.4	106.6	109.1	111.3	116.1	119.1	116.0	108.4	95.0	90.1	83.5	76.8	70.1
630	94.5	95.7	98.0	100.6	100.3	102.0	103.1	104.3	106.7	109.0	113.9	116.8	113.8	106.1	92.7	87.9	81.2	74.5	67.9
800	92.2	93.3	95.7	98.2	98.0	99.6	100.8	101.9	104.3	106.7	111.6	114.5	111.4	103.8	90.4	85.6	78.9	72.2	65.6
1000	89.7	90.9	93.2	95.8	95.5	97.2	98.3	99.4	101.8	104.2	109.2	112.1	109.0	101.4	87.9	83.2	76.5	69.9	63.2
1250	87.2	88.4	90.7	93.2	93.0	94.7	95.8	96.8	99.2	101.7	106.7	109.6	106.5	98.9	85.4	80.7	74.1	67.4	60.7
1600	84.5	85.7	88.1	90.6	90.4	92.0	93.1	94.1	96.5	99.1	104.2	107.0	103.9	96.2	82.7	78.2	71.5	64.8	58.2
2000	81.8	83.0	85.3	87.9	87.6	89.3	90.4	91.3	93.7	96.4	101.5	104.4	101.2	93.5	79.9	75.5	68.8	62.2	55.5
2500	78.8	80.0	82.3	84.9	84.6	86.3	87.4	88.2	90.7	93.5	98.6	101.4	98.1	90.6	76.8	72.5	65.9	59.2	52.5
3150	75.4	76.7	79.0	81.7	81.4	83.1	84.2	85.0	87.4	90.3	95.4	98.2	94.8	87.4	73.5	69.3	62.6	56.0	49.3
4000	71.8	73.1	75.4	78.1	77.8	79.5	80.6	81.4	83.8	86.7	91.8	94.6	91.1	83.8	69.7	65.7	59.0	52.3	45.7
5000	67.6	69.1	71.3	74.1	73.8	75.5	76.6	77.3	79.7	82.7	87.8	90.5	87.0	79.9	65.6	61.6	54.9	48.3	41.6
6300	63.2	64.7	66.9	69.7	69.5	71.1	72.2	72.9	75.3	78.4	83.4	86.2	82.6	75.6	61.2	57.2	50.6	43.9	37.2
8000	59.1	60.7	62.9	65.6	65.3	66.9	68.1	68.6	71.0	74.3	79.5	82.3	78.7	71.6	57.4	53.4	46.7	40.0	33.4
10000	54.7	56.3	58.5	61.1	60.8	62.5	63.6	64.0	66.4	69.8	75.2	78.0	74.5	67.3	53.3	49.2	42.5	35.8	29.2
12500	50.0	51.6	53.8	56.2	55.8	57.6	58.7	58.9	61.4	64.9	70.5	73.4	70.0	62.7	48.8	44.6	37.9	31.3	24.6
16000	44.9	46.5	48.6	50.9	50.4	52.3	53.4	53.4	55.9	59.5	65.4	68.3	65.0	57.6	44.1	39.6	32.9	26.3	19.6
20000	39.3	40.9	43.0	45.0	44.6	46.4	47.5	47.5	49.9	53.6	59.8	62.8	59.7	52.1	39.1	34.2	27.5	20.9	14.2
25000	33.3	34.8	36.9	38.7	38.2	40.1	41.2	41.0	43.5	47.1	53.6	56.8	54.0	46.4	34.1	28.4	21.8	15.1	8.4
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: () IDENTIFICATION: ()																			
() RA-5C AIRCRAFT () OMEGA 8.2 ()																			
() ENG. J79-GE-8C () TEST 74-004-002 ()																			
() GROUND RUNUP () RUN 04 ()																			
() OPERATION: () METEOROLOGY: () AIRCRAFT CODE 131 ()																			
() AFTERBURNER, MAX POWER () TEMP = 59 F () OPERATION CODE 01003 ()																			
() SINGLE ENGINE () BAR PRESS = 29.92 IN HG () PROFILE VERSION A ()																			
() () REL HUMID = 70 % () 23 FEB 78 ()																			
() () DELTA N = 0.0 DB () PAGE G4 ()																			
() DISTANCE () ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	105.6	106.6	109.0	111.6	111.3	113.1	114.2	115.5	118.0	120.1	124.8	127.7	124.6	116.9	103.5	98.7	92.0	85.4	78.7
250	103.5	104.5	106.9	109.4	109.2	110.9	112.0	113.3	115.8	117.9	122.7	125.6	122.5	114.9	101.4	96.6	89.9	83.3	76.6
315	101.3	102.4	104.8	107.3	107.1	108.8	109.9	111.1	113.6	115.8	120.5	123.5	120.4	112.8	99.3	94.5	87.8	81.1	74.5
400	99.1	100.2	102.6	105.1	104.9	106.6	107.7	108.9	111.4	113.6	118.3	121.3	118.3	110.6	97.2	92.3	85.7	79.0	72.3
500	96.8	98.0	100.3	102.9	102.6	104.3	105.4	106.6	109.1	111.3	116.1	119.1	116.0	108.4	95.0	90.1	83.5	76.8	70.1
630	94.5	95.7	98.0	100.6	100.3	102.0	103.1	104.3	106.7	109.0	113.9	116.8	113.8	106.1	92.7	87.9	81.2	74.5	67.9
800	92.2	93.3	95.7	98.2	98.0	99.6	100.8	101.9	104.3	106.7	111.6	114.5	111.4	103.8	90.4	85.6	78.9	72.2	65.6
1000	89.7	90.9	93.2	95.8	95.5	97.2	98.3	99.4	101.8	104.2	109.2	112.1	109.0	101.4	87.9	83.2	76.5	69.9	63.2
1250	87.2	88.4	90.7	93.2	93.0	94.7	95.8	96.8	99.2	101.7	106.7	109.6	106.5	98.9	85.4	80.7	74.1	67.4	60.7
1600	84.5	85.7	88.1	90.6	90.4	92.0	93.1	94.1	96.5	99.1	104.2	107.0	103.9	96.2	82.7	78.2	71.5	64.8	58.2
2000	81.8	83.0	85.3	87.9	87.6	89.3	90.4	91.3	93.7	96.4	101.5	104.4	101.2	93.5	79.9	75.5	68.8	62.2	55.5
2500	78.8	80.0	82.3	84.9	84.6	86.3	87.4	88.2	90.7	93.5	98.6	101.4	98.1	90.6	76.8	72.5	65.9	59.2	52.5
3150	75.4	76.7	79.0	81.7	81.4	83.1	84.2	85.0	87.4	90.3	95.4	98.2	94.8	87.4	73.5	69.3	62.6	56.0	49.3
4000	71.8	73.1	75.4	78.1	77.8	79.5	80.6	81.4	83.8	86.7	91.8	94.6	91.1	83.8	69.7	65.7	59.0	52.3	45.7
5000	67.6	69.1	71.3	74.1	73.8	75.5	76.6	77.3	79.7	82.7	87.8	90.5	87.0	79.9	65.6	61.6	54.9	48.3	41.6
6300	63.2	64.7	66.9	69.7	69.5	71.1	72.2	72.9	75.3	78.4	83.4	86.2	82.6	75.6	61.2	57.2	50.6	43.9	37.2
8000	59.1	60.7	62.9	65.6	65.3	66.9	68.1	68.6	71.0	74.3	79.5	82.3	78.7	71.6	57.4	53.4	46.7	40.0	33.4
10000	54.7	56.3	58.5	61.1	60.8	62.5	63.6	64.0	66.4	69.8	75.2	78.0	74.5	67.3	53.3	49.2	42.5	35.8	29.2
12500	50.0	51.6	53.8	56.2	55.8	57.6	58.7	58.9	61.4	64.9	70.5	73.4	70.0	62.7	48.8	44.6	37.9	31.3	24.6
16000	44.9	46.5	48.6	50.9	50.4	52.3	53.4	53.4	55.9	59.5	65.4	68.3	65.0	57.6	44.1	39.6	32.9	26.3	19.6
20000	39.3	40.9	43.0	45.0	44.6	46.4	47.5	47.5	49.9	53.6	59.8	62.8	59.7	52.1	39.1	34.2	27.5	20.9	14.2
25000	33.3	34.8	36.9	38.7	38.2	40.1	41.2	41.0	43.5	47.1	53.6	56.8	54.0	46.4	34.1	28.4	21.8	15.1	8.4
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

RA-5C AIRCRAFT

ENG. J79-GE-8C

GROUND RUNUP

OPERATION:

AFTERBURNER, MAX POWER

SINGLE ENGINE

METEOROLOG:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-002

RUN 04

AIRCRAFT CODE 131

OPERATION CODE 01003

PROFILE VERSION A

31 OCT 75

PAGE J4

	A=AL											T=ALT											
	P=PNLT											T=ALT											
	40	50	60	70	80	90	100	110	120	130	140		40	50	60	70	80	90	100	110	120	130	140
ANGLE																							
0																							
10																							
20																							
30																							
40																							
50																							
60																							
70																							
80																							
90																							
100																							
110																							
120																							
130																							
140																							
150																							
>160																							
>170																							
>180																							

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

A-6 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 132
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING

PAGE

TAKEOFF	- 100% RPM, 2.05 EPR	. . . . .	152	- 160
APPROACH	- 95% RPM, 1.80 EPR	. . . . .	161	- 169

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

111 DEC 75

AEROSPACET-PATTERSON MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 132	
A-6																									OPS CODE: 103	
(PROFILE VER: A	
(11 DEC 75	
(PAGE H1	
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	86	86	87	93	103	107	105	104	109	108	110	114	116	116	113	115	114	113	112	111	109	108	108	106	106	
250	84	84	85	91	101	105	103	102	107	106	108	112	114	114	111	113	112	111	110	109	107	106	105	102		
315	82	82	83	89	99	103	101	100	105	104	106	110	112	112	109	111	110	109	108	107	104	103	102	98		
400	80	80	81	87	97	101	99	98	103	102	104	108	110	110	107	109	108	106	105	104	102	100	98	94		
500	78	78	79	85	95	99	97	96	101	100	102	105	108	107	105	107	105	104	103	101	99	96	94	89		
630	76	75	77	83	93	97	95	94	99	98	99	103	106	105	102	104	103	101	100	98	95	93	90	84		
800	74	74	75	81	90	95	93	92	97	96	97	101	103	103	100	102	100	99	97	95	92	89	85	77		
1000	72	72	73	79	88	93	90	90	95	94	95	99	101	101	98	99	98	96	94	91	88	84	79	70		
1250	70	70	71	77	86	91	88	88	92	91	93	97	99	98	95	97	95	93	90	87	84	79	72	61		
1600	68	68	69	75	84	89	86	86	90	89	91	94	96	96	93	94	92	90	87	83	79	73	64	50		
2000	66	66	67	73	82	87	84	83	88	87	88	92	94	93	90	91	89	86	82	78	73	65	54	37		
2500	64	64	65	71	80	84	82	81	86	85	86	90	91	90	87	88	85	82	78	72	66	57	43	21		
3150	62	62	62	68	78	82	80	79	84	82	84	87	89	87	84	84	81	77	72	65	59	46	29	1		
4000	60	59	60	66	76	80	78	77	81	80	81	84	86	84	80	80	77	72	66	56	49	34	12			
5000	57	57	58	64	74	78	75	74	79	77	78	81	82	81	76	76	72	66	58	47	38	19				
6300	55	55	56	62	71	76	73	72	76	75	75	78	79	77	72	71	66	59	49	35	24	0				
8000	53	53	54	60	69	73	70	69	73	72	72	75	75	72	67	65	59	50	38	20	7					
10000	51	51	52	57	67	71	68	66	70	68	69	71	71	67	61	58	50	40	25	2						
12500	49	49	49	55	64	68	65	64	67	65	65	66	65	62	54	50	40	27	9							
16000	47	46	47	53	62	65	62	60	64	61	60	61	60	55	46	40	28	12								
20000	44	44	45	50	59	62	59	57	60	57	55	56	53	47	37	28	14									
25000	42	42	42	47	56	59	55	53	56	52	50	49	45	37	25	14										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION											
(OPERATION:) METEOROLOGY:											
(TAKEOFF POWER) TEMP											
(100 % RPM 2.05 EPR) REL HUMID = 70 %											
(AIRSPEED = 250 KNOTS) DELTA N = 0.0 DB											
PAGE 11											
A-6											
A/C CODE: 132											
OPS CODE: 103											
PROFILE VER: A											
11 DEC 75											
OMEGA 6.6											
AIRCRAFT:											
SLANT DISTANCE (FEET)											
AL (DBA)											
ALT** (DBA)											
PNL (PNDB)											
PNLT** (PNDB)											
SEL (DB)											
SELT** (DB)											
EPNL** (EPNDB)											
200	124.6	125.2	136.8	137.4	122.8	124.0	126.0				
250	122.4	123.0	134.5	135.1	121.6	122.8	124.7				
315	120.2	120.8	132.2	132.8	120.4	121.6	123.4				
400	117.9	118.5	129.9	130.4	119.2	120.3	122.0				
500	115.6	116.2	127.4	128.0	117.8	119.0	120.6				
630	113.3	113.8	124.8	125.4	116.5	117.6	119.0				
800	110.8	111.4	122.2	122.7	115.0	116.2	117.3				
1000	108.3	108.9	119.3	119.9	113.5	114.7	115.5				
1250	105.7	106.3	116.4	116.9	111.9	113.1	113.6				
1600	103.0	103.6	113.4	113.9	110.2	111.4	111.5				
2000	100.2	100.8	110.2	110.8	108.4	109.6	109.4				
2500	97.3	97.8	106.9	107.4	106.5	107.6	107.0				
3150	94.1	94.7	103.3	103.9	104.4	105.5	104.5				
4000	90.9	91.3	99.5	99.9	102.1	103.0	101.5				
5000	87.4	87.7	95.7	96.0	99.6	100.3	98.4				
6300	83.7	83.9	91.8	92.0	96.9	97.3	95.2				
8000	79.7	79.8	87.6	87.7	93.9	94.1	91.8				
10000	75.4	75.4	83.1	83.1	90.6	90.6	88.2				
12500	70.8	70.8	78.5	78.5	87.0	87.0	84.5				
16000	66.0	66.0	73.9	73.9	83.2	83.2	80.9				
20000	60.8	60.8	69.1	69.1	79.0	79.0	77.1				
25000	55.5	55.5	63.9	63.9	74.7	74.7	72.9				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	METEOROLOGY:	IDENTIFICATION:						
	TAKEOFF POWER	TEMP							
A-6	100 % RPM	2.05 EPR	59 F						
		REL HUMID	70 %						
			11 DEC 75						
	AIRSPED = 250 KNOTS	DELTA N = 0.0 DB	PAGE M1						
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	119.6	120.3	131.8	132.4	117.8	119.1	121.1		
250	117.4	118.1	129.5	130.2	116.6	117.9	119.8		
315	115.2	115.8	127.2	127.9	115.4	116.6	118.5		
400	112.9	113.6	124.9	125.5	114.2	115.4	117.1		
500	110.6	111.3	122.4	123.0	112.8	114.1	115.6		
630	108.3	108.9	119.8	120.4	111.5	112.7	114.0		
800	105.8	106.5	117.1	117.7	110.0	111.3	112.3		
1000	103.3	103.9	114.2	114.8	108.5	109.7	110.4		
1250	100.7	101.3	111.1	111.8	106.9	108.1	108.4		
1600	98.0	98.6	107.9	108.6	105.2	106.4	106.2		
2000	95.1	95.8	104.6	105.2	103.4	104.6	103.9		
2500	92.1	92.8	100.9	101.6	101.4	102.6	101.2		
3150	88.9	89.6	97.0	97.6	99.2	100.4	98.3		
4000	85.4	85.9	92.6	93.1	96.6	97.6	94.6		
5000	81.5	81.9	87.9	88.3	93.7	94.4	90.7		
6300	77.2	77.4	83.1	83.3	90.4	90.9	86.6		
8000	72.8	73.0	78.5	78.6	87.0	87.3	82.8		
10000	68.1	68.1	73.5	73.5	83.3	83.3	78.6		
12500	62.9	62.9	68.1	68.1	79.1	79.1	74.1		
16000	57.1	57.1	62.0	62.0	74.3	74.3	69.1		
20000	50.6	50.6	55.4	55.4	68.8	68.8	63.4		
25000	43.4	43.4	48.0	48.0	62.6	62.6	57.1		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																									
AIR-TO-GROUND PROPAGATION																											
AIRCRAFT:	(OPERATION:)		METEOROLOGY:																								
	(APPROACH POWER)		TEMP																								
	(95 % RPM 1.8 EPR)		REL HUMID = 70 %																								
	(AIRSPEED = 160 KNOTS)		DELTA N = 0.0 DB																								
SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																										
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	90	88	91	101	108	111	110	108	113	111	111	110	109	109	108	108	107	105	104	104	101	99	98	94			
250	88	86	89	99	106	109	108	106	111	109	109	108	107	106	106	105	105	103	102	101	98	96	95	91			
315	86	84	87	97	104	107	106	104	109	107	107	106	105	104	104	103	103	101	100	99	96	94	91	87			
400	84	82	85	95	102	105	104	102	107	105	105	104	103	102	102	101	101	99	97	96	93	91	88	83			
500	82	80	83	93	100	103	102	100	104	103	103	102	101	100	99	99	98	96	95	93	90	87	84	78			
630	80	78	81	91	98	101	99	98	102	101	101	100	98	98	97	96	96	94	92	90	87	83	79	72			
800	78	76	79	89	96	99	97	96	100	99	99	98	96	96	95	94	93	91	89	87	83	79	74	66			
1000	76	74	77	87	94	97	95	94	98	97	97	96	94	93	92	92	91	88	86	83	79	75	68	58			
1250	74	72	75	85	92	95	93	92	96	95	94	93	92	91	90	89	88	85	82	79	75	69	61	49			
1600	72	70	73	83	90	93	91	90	94	93	92	91	89	88	87	86	85	82	79	75	70	63	53	37			
2000	70	68	70	81	88	91	89	88	92	90	90	89	87	86	84	83	81	78	74	70	64	55	43	24			
2500	68	66	68	79	86	89	87	85	90	88	87	85	84	83	81	80	78	74	69	63	57	47	31	7			
3150	66	64	66	77	84	87	85	83	87	86	85	83	81	80	78	76	74	69	64	56	49	36	16				
4000	64	62	64	75	82	85	82	81	85	83	82	81	78	77	75	72	69	64	57	48	39	23					
5000	62	60	62	73	80	82	80	78	82	80	80	78	75	73	71	68	64	57	49	38	28	7					
6300	60	58	60	70	77	80	78	76	80	78	77	74	72	69	66	62	58	50	40	25	14						
8000	58	55	58	68	75	78	75	73	77	75	73	71	68	65	61	56	51	41	29	10							
10000	55	53	56	66	73	75	73	71	74	71	70	67	63	60	55	49	42	31	15								
12500	53	51	53	63	70	72	70	68	71	68	66	62	58	54	48	41	32	18									
16000	51	49	51	61	67	70	67	64	67	64	61	57	52	47	40	31	20	2									
20000	49	46	48	58	65	67	64	61	63	59	56	51	45	38	30	18	5										
25000	46	44	46	56	62	63	60	57	59	54	50	44	37	28	18	4											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

NOISE PRODUCED ON THE GROUND BY

A-6A AIRCRAFT

DURING GROUND RUN-JP OPERATIONS

TEST 74-004-003
AIRCRAFT CODE: 132
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

IDLE - 60% RPM	171 - 176
7% RPM	177 - 182
MILITARY - 99% RPM	183 - 188

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

31 OCT 75

AEROSPACE MEDICAL RESEARCH LABORATORY
AERIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																					IDENTIFICATION:									
1/3 OCTAVE BAND) OMEGA 8.2									
DISTANCE = 250 FEET) TEST 74-004-003									
) RUN 01									
NOISE SOURCE/SUBJECT:											) METEOROLOGY:									
(A-6A AIRCRAFT											(TEMP = 59 F																			
(ENG. J52-P-8A											(BAR PRESS = 29.92 IN HG																			
(GROUND RUNUP											(REL HUMID = 70 %																			
											(DELTA N = 0.0 DB																			
BAND CENTER																					ANGLE (DEGREES)									
FREQ (HZ)																														
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180												
50	65	64	64	65	63	65	65	64	65	66	69	71	73	73	72	69	69	73												
63	65	66	67	65	66	64	65	64	65	67	69	72	74	74	70	68	67	73												
80	66	66	68	67	66	63	66	65	66	68	70	71	73	75	70	64	63	70												
100	74	74	75	73	72	72	72	70	73	76	77	77	77	77	72	59<	69													
125	72	72	73	71	71	69	69	68	70	74	74	75	76	75	72	54	54	63												
160	74	74	73	73	72	70	69	69	71	75	74	75	78	77	71	53	57	61												
200	72	71	73	73	71	70	69	69	70	74	77	81	81	80	73	59	64	75												
250	72	72	73	72	71	69	69	69	72	75	75	80	79	79	74	57	61	72												
315	73	73	73	72	69	67	66	67	66	71	77	76	76	77	72	54	55	62												
400	74	74	74	72	71	70	69	68	67	71	77	76	76	75	72	55	55	61												
500	76	75	75	74	71	71	70	70	72	77	78	78	76	74	71	58	56	61												
630	78	77	77	77	75	70	69	70	72	77	76	78	75	74	69	60	55	63												
800	81	79	77	76	74	70	69	68	66	70	74	75	76	72	66	56	55	62												
1000	80	77	78	76	74	71	71	68	65	69	70	73	72	71	64	52	54	61												
1250	76	74	75	72	70	68	67	66	63	67	67	71	69	69	61	51	52	60												
1600	79	79	79	76	73	71	69	68	64	67	67	67	67	67	64	61	50	51	58											
2000	85	86	87	80	80	74	73	71	67	68	70	68	68	67	63	50	51	57												
2500	89	89	92	82	81	78	74	71	70	72	73	69	70	65	63	52	51	57												
3150	96	98	99	89	86	82	76	75	74	76	74	72	71	67	65	55	52	61												
4000	85	85	84	84	81	81	74	73	69	70	73	73	72	69	65	53	52	58												
5000	82	84	84	80	77	77	72	70	67	71	73	71	70	68	64	64	51	57												
6300	84	89	85	81	78	76	72	69	66	70	72	71	69	66	63	62	50	50	56											
8000	80	80	81	77	75	74	70	67	63	67	70	69	68	64	60	47	47	53												
10000	74	75	74	71	67	68	64	64	61	66	69	69	67	64	59	57	45	47	53											
OVERALL	98	100	100	93	91	88	84	83	82	84	87	87	89	88	87	83	74	74	81											

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(A-6A AIRCRAFT																			
(ENG. J52-P-8A																			
(GROUND RUNUP																			
(OPERATION:																			
(IDLE, 60% RPM																			
(SINGLE ENGINE																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	115.9	117.6	117.9	110.4	108.3	105.1	100.6	99.4	97.7	100.3	101.3	100.6	100.6	98.6	96.2	94.1	82.1	81.2	89.1
250	113.6	115.3	115.6	108.1	106.0	102.8	98.3	97.1	95.4	98.0	99.0	98.3	98.3	96.3	94.0	91.8	79.8	78.9	86.8
315	111.2	112.9	113.3	105.7	103.6	100.4	95.9	94.7	93.0	95.6	96.7	95.9	95.9	93.9	91.8	89.4	77.4	76.5	84.5
400	108.8	110.4	110.8	103.2	101.2	97.9	93.4	92.2	90.6	93.2	94.2	93.4	93.4	91.5	89.5	86.9	74.9	74.0	82.0
500	106.2	107.8	108.2	100.6	98.6	95.3	90.8	89.6	88.0	90.6	91.6	90.7	90.8	88.9	87.0	84.3	72.3	71.4	79.4
630	103.5	105.1	105.5	97.9	95.8	92.5	88.1	86.9	85.3	87.8	88.9	88.0	88.0	86.1	84.3	81.6	69.6	68.6	76.7
800	100.6	102.2	102.6	95.0	92.9	89.6	85.2	84.0	82.4	84.9	86.1	85.1	85.0	83.2	81.5	78.8	66.6	65.7	73.8
1000	97.4	99.0	99.5	91.8	89.8	86.4	82.1	80.9	79.3	81.8	83.0	82.1	81.9	80.4	78.7	75.7	63.5	62.5	70.8
1250	94.1	95.6	96.1	88.5	86.4	83.0	78.7	77.5	75.9	78.5	79.6	78.8	78.9	77.5	75.5	72.5	60.1	59.1	67.4
1600	90.4	91.9	92.3	84.7	82.7	79.3	75.0	73.9	72.3	74.9	76.1	75.6	75.8	74.4	72.4	69.4	56.3	55.3	63.8
2000	86.3	87.8	88.2	80.7	78.7	75.2	71.0	69.8	68.2	70.8	72.2	72.3	72.6	71.1	69.1	66.1	52.5	50.7	59.7
2500	81.7	83.1	83.6	76.1	74.1	70.6	66.5	65.3	63.7	66.4	68.6	68.7	69.0	67.6	65.5	62.3	48.2	46.2	55.3
3150	76.6	77.9	78.4	71.0	69.1	65.5	61.8	60.4	58.6	61.4	64.4	64.6	64.9	63.4	61.4	57.9	43.9	41.1	50.4
4000	70.8	72.0	72.5	65.2	63.2	59.6	56.6	55.4	53.2	56.3	59.8	60.0	60.4	58.6	56.6	52.9	38.3	34.8	45.1
5000	64.1	65.1	65.7	58.6	57.4	53.5	50.7	49.2	47.5	50.8	54.5	54.8	55.3	53.4	51.5	47.1	32.0	27.1	39.3
6300	56.7	57.3	58.4	52.1	51.0	45.8	43.5	42.9	41.2	44.7	48.9	49.4	49.8	47.9	45.6	41.0	22.8	16.0	32.1
8000	50.6	50.2	50.8	46.0	44.1	39.1	38.0	37.0	35.1	39.3	44.0	44.5	45.0	42.9	40.6	35.9	15.6	4.9	23.4
10000	44.3	42.7	42.1	39.7	37.6	32.4	31.5	30.6	28.0	32.1	38.0	38.9	39.5	37.7	34.9	30.0	7.3		14.5
12500	36.8	34.8	34.3	32.0	29.7	23.5	23.3	22.5	19.4	25.9	32.7	33.4	33.9	31.4	28.9	22.9			5.6
16000	28.1	25.1	24.6	23.8	20.4	12.2	10.9	11.9	10.5	15.4	26.0	26.6	27.0	24.0	19.4	11.8			
20000	15.4	12.7	11.5	11.7	10.2	.9		1.3	1.7	4.9	16.3	16.2	16.4	11.8	7.8	.7			
25000	2.8	.4									6.7	5.7	5.8						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-6A AIRCRAFT																			
ENG. J52-P-8A																			
GROUND RUNUP																			
(OPERATION:																			
(IDLE, 60% RPM																			
(SINGLE ENGINE																			
(
(
(
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-003																			
) RUN 01																			
) AIRCRAFT CODE 132																			
) OPERATION CODE 01013																			
) PROFILE VERSION A																			
) 31 OCT 75																			
) PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	118.9	121.3	121.4	112.3	110.0	106.0	101.3	99.9	99.1	101.9	102.1	101.3	101.3	98.5	96.2	94.1	83.3	81.9	90.5
250	116.6	119.0	119.1	110.0	107.7	103.7	99.0	97.6	96.8	99.6	99.8	99.0	98.9	96.3	94.0	91.8	81.0	79.6	88.2
315	114.2	116.6	116.8	107.7	105.3	101.3	96.7	95.2	94.4	97.2	97.5	96.6	96.6	93.9	91.8	89.4	78.6	77.2	85.9
400	111.8	114.1	114.3	105.2	102.9	98.8	94.2	92.8	92.0	94.8	95.0	94.1	94.1	91.5	89.5	86.9	76.1	74.7	83.4
500	109.2	111.5	111.7	102.6	100.3	96.2	91.6	90.2	89.4	92.2	92.4	91.4	91.5	88.9	87.0	84.3	73.5	72.0	80.8
630	106.4	108.8	109.0	99.8	97.5	93.4	88.8	87.4	86.7	89.5	89.7	88.7	88.7	86.1	84.3	81.6	70.8	69.3	78.0
800	103.5	105.8	106.1	96.9	94.6	90.5	85.9	84.5	83.8	86.6	86.8	85.8	85.7	83.2	81.5	78.8	67.8	66.4	75.2
1000	100.4	102.7	103.0	93.8	91.5	87.3	82.8	81.4	80.7	83.5	83.8	82.8	82.6	80.4	78.7	75.7	64.7	63.2	72.1
1250	97.0	99.3	99.6	90.4	88.1	83.9	79.4	78.1	77.3	80.1	80.4	79.5	79.6	77.5	75.5	72.5	61.2	59.7	68.8
1600	93.3	95.6	95.9	86.7	84.5	80.2	75.8	74.4	73.7	76.5	76.8	76.3	76.5	74.4	72.4	69.4	57.5	55.9	65.1
2000	89.3	91.4	91.8	82.6	80.4	76.1	71.7	70.3	69.6	72.5	73.0	73.0	73.3	71.1	69.1	66.1	53.7	51.4	61.1
2500	84.7	86.8	87.1	78.1	75.8	71.5	67.3	65.9	65.1	68.1	69.4	69.4	69.7	67.6	65.5	62.3	49.4	46.8	56.7
3150	79.6	81.6	81.9	72.9	70.8	66.4	62.6	60.9	60.0	63.0	65.2	65.3	65.5	63.4	61.4	57.9	45.0	41.7	51.8
4000	73.2	74.9	75.3	66.7	64.6	60.3	57.2	55.8	54.3	57.6	60.4	60.6	60.9	58.6	56.6	52.9	39.3	35.4	46.2
5000	65.9	67.3	67.8	59.8	58.5	54.0	51.2	49.6	48.3	51.7	54.9	55.2	55.7	53.4	51.5	47.1	32.7	27.5	40.1
6300	57.9	58.8	59.8	52.9	51.6	46.2	43.8	43.1	41.7	45.3	49.3	49.6	50.1	47.9	45.6	41.0	23.3	16.3	32.6
8000	51.2	51.0	51.5	46.3	44.4	39.3	38.1	37.1	35.4	39.6	44.1	44.6	45.1	42.9	40.6	35.9	15.8	5.0	23.7
10000	44.3	42.7	42.1	39.7	37.6	32.4	31.5	30.6	28.0	32.1	38.0	38.9	39.5	37.7	34.9	30.0	7.3		14.5
12500	36.8	34.8	34.3	32.0	29.7	23.5	23.3	22.5	19.4	25.9	32.7	33.4	33.9	31.4	28.9	22.9			5.6
16000	28.1	25.1	24.6	23.8	20.4	12.2	10.9	11.9	10.5	15.4	26.0	26.6	27.0	24.0	19.4	11.8			
20000	15.4	12.7	11.5	11.7	10.2	.9		1.3	1.7	4.9	16.3	16.2	16.4	11.8	7.8	.7			
25000	2.8	.4								6.7	5.7	5.7	5.8						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
A-6A AIRCRAFT																				
ENG. J52-P-8A																				
GROUND RUNUP																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-003																				
AIRCRAFT CODE 132																				
OPERATION CODE 01013																				
PROFILE VERSION A																				
31 OCT 75																				
PAGE F1																				
METEOROLOGY:																				
TEMP = 59 F																				
BAR PRESS = 29.92 IN HG																				
REL HUMID = 70 %																				
DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	101.3	103.2	103.7	95.5	93.5	90.5	85.9	84.4	82.3	84.8	86.8	86.3	86.4	84.5	82.6	79.5	67.5	66.7	74.5	
250	99.0	100.9	101.5	93.2	91.2	88.2	83.6	82.1	80.0	82.5	84.5	84.1	84.2	82.4	80.5	77.3	65.3	64.5	72.3	
315	96.6	98.5	99.1	90.8	88.8	85.8	81.2	79.8	77.7	80.2	82.2	81.8	82.0	80.2	78.4	75.1	63.1	62.3	70.1	
400	94.2	96.0	96.7	88.3	86.4	83.3	78.8	77.4	75.3	77.8	79.9	79.5	79.8	78.0	76.2	72.9	60.8	60.1	67.9	
500	91.6	93.5	94.1	85.7	83.8	80.6	76.3	74.9	72.8	75.4	77.5	77.2	77.5	75.7	74.0	70.6	58.5	57.7	65.6	
630	89.0	90.7	91.5	83.0	81.2	77.9	73.7	72.3	70.3	72.8	75.0	74.8	75.1	73.4	71.7	68.2	56.2	55.3	63.2	
800	86.1	87.9	88.5	80.2	78.4	75.0	71.0	69.6	67.6	70.2	72.5	72.4	72.7	71.0	69.3	65.8	53.8	52.8	60.7	
1000	83.1	84.8	85.6	77.2	75.4	72.0	68.1	66.8	64.9	67.5	70.0	69.9	70.2	68.6	66.9	63.3	51.3	50.3	58.1	
1250	79.9	81.5	82.3	74.0	72.3	68.8	65.2	63.9	62.0	64.6	67.3	67.3	67.7	66.0	64.3	60.7	48.7	47.6	55.3	
1600	76.4	77.9	78.7	70.6	68.9	65.3	62.1	60.9	59.1	61.7	64.6	64.7	65.1	63.4	61.7	58.0	46.1	44.9	52.5	
2000	72.6	73.9	74.8	66.9	65.3	61.7	58.9	57.8	55.8	58.7	61.8	62.0	62.4	60.6	58.9	55.2	43.4	42.0	49.5	
2500	68.5	69.6	70.5	63.1	61.6	57.9	55.6	54.4	52.6	55.4	58.8	59.1	59.5	57.7	56.0	52.1	40.6	39.0	46.4	
3150	64.1	64.8	65.7	59.0	57.5	53.8	52.0	50.9	49.0	52.0	55.4	55.9	56.3	54.7	52.7	48.7	37.4	35.6	43.0	
4000	59.4	59.7	60.5	54.7	53.2	49.6	48.1	47.1	45.2	48.2	51.7	52.3	52.7	50.7	49.1	44.9	33.9	32.0	39.3	
5000	54.5	54.1	54.8	50.1	48.6	45.0	43.9	42.8	40.9	44.0	47.5	48.2	48.7	46.5	45.0	40.7	29.8	27.9	35.3	
6300	49.4	48.5	48.9	45.4	43.7	40.3	39.4	38.3	36.4	39.5	43.1	43.9	44.4	42.2	40.7	36.3	25.4	23.6	30.9	
8000	44.7	43.2	43.2	40.9	39.3	35.9	35.1	34.2	32.5	35.6	39.4	40.1	40.7	38.5	37.0	32.6	21.7	19.6	27.0	
10000	39.8	38.0	37.8	36.3	34.7	31.2	30.5	29.8	28.3	31.4	35.4	36.0	36.6	34.4	33.0	28.7	17.7	15.4	22.7	
12500	34.6	32.7	32.4	31.3	29.8	26.2	25.6	25.0	23.7	26.8	31.0	31.5	32.1	30.0	28.5	24.4	13.2	10.8	18.1	
16000	28.8	27.1	26.7	25.8	24.5	20.8	20.2	19.8	18.7	21.7	26.1	26.5	27.2	25.2	23.7	19.7	8.3	5.8	13.2	
20000	22.5	20.9	20.6	19.8	18.6	15.0	14.4	14.2	13.2	16.2	20.7	21.0	21.7	19.9	18.4	14.6	2.8	.6	8.1	
25000	15.5	14.1	13.9	13.2	12.2	8.6	8.1	8.0	7.1	10.1	14.8	15.0	15.7	14.2	12.6	9.0			2.9	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-6A AIRCRAFT																			
ENG. J52-P-8A																			
GROUND RUNUP																			
OPERATION:																			
IDLE, 60% RPM																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 132																			
OPERATION CODE 01013																			
PROFILE VERSION A																			
31 OCT 75																			
PAGE G1																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-003																			
RUN 01																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	104.2	106.8	107.2	97.4	95.2	91.4	86.6	85.0	83.6	86.4	87.5	87.0	87.1	84.5	82.6	79.5	68.7	67.4	75.8
250	102.0	104.5	105.0	95.1	92.9	89.1	84.3	82.7	81.4	84.2	85.3	84.8	84.9	82.4	80.5	77.3	66.5	65.2	73.7
315	99.6	102.2	102.6	92.7	90.5	86.6	82.0	80.3	79.1	81.8	83.0	82.5	82.7	80.2	78.4	75.1	64.3	63.0	71.5
400	97.2	99.7	100.2	90.3	88.1	84.1	79.5	77.9	76.7	79.4	80.7	80.2	80.4	78.0	76.2	72.9	62.0	60.7	69.3
500	94.6	97.1	97.6	87.3	85.5	81.5	77.0	75.4	74.2	77.0	78.3	77.9	78.2	75.7	74.0	70.6	59.7	58.4	67.0
630	92.0	94.4	95.0	85.0	82.9	78.8	74.4	72.9	71.7	74.4	75.8	75.5	75.8	73.4	71.7	68.2	57.4	56.0	64.6
800	89.1	91.5	92.1	82.1	80.1	75.9	71.7	70.2	69.0	71.8	73.3	73.1	73.4	71.0	69.3	65.8	54.9	53.5	62.1
1000	86.1	88.5	89.1	79.1	77.1	72.9	68.9	67.4	66.3	69.1	70.7	70.6	70.9	68.6	66.9	63.3	52.5	50.9	59.5
1250	82.9	85.2	85.8	75.9	74.0	69.6	65.6	64.5	63.4	66.3	68.1	68.0	68.4	66.0	64.3	60.7	49.9	48.3	56.7
1600	79.4	81.6	82.2	72.5	70.6	66.2	62.2	61.4	60.4	63.3	65.4	65.4	65.8	63.4	61.7	58.0	47.3	45.5	53.9
2000	75.6	77.6	78.3	68.9	67.1	62.6	58.7	58.3	57.2	60.3	62.6	62.7	63.1	60.6	58.9	55.2	44.6	42.7	50.9
2500	71.5	73.3	74.0	65.0	63.3	58.8	54.8	54.3	53.2	56.3	58.6	58.6	59.0	56.4	54.7	51.1	40.4	38.6	46.8
3150	67.1	68.5	69.2	61.0	59.2	54.7	50.7	50.4	49.3	52.4	54.6	54.6	55.0	52.4	50.7	47.1	36.4	34.6	42.8
4000	61.8	62.6	63.3	56.3	54.6	50.3	46.3	45.7	44.6	47.7	49.8	49.8	50.2	47.6	45.9	42.3	31.6	29.8	38.0
5000	56.3	56.3	56.9	51.3	49.6	45.6	41.6	41.0	40.0	43.1	45.2	45.2	45.6	43.0	41.3	37.7	27.0	25.2	33.4
6300	50.6	49.9	50.3	46.1	44.4	40.4	36.4	35.8	34.7	37.8	39.9	39.9	40.3	37.7	36.0	32.4	21.7	20.0	28.2
8000	45.3	43.9	43.9	41.3	39.6	36.1	32.1	31.5	30.4	33.5	35.6	35.6	36.0	33.4	31.7	28.1	17.4	15.6	23.8
10000	39.8	38.0	37.8	36.3	34.7	31.2	27.2	26.6	25.5	28.6	30.7	30.7	31.1	28.5	26.8	23.2	12.5	10.7	18.9
12500	34.6	32.7	32.4	31.3	29.8	26.2	22.2	21.6	20.5	23.6	25.7	25.7	26.1	23.5	21.8	18.2	7.5	5.7	14.7
16000	28.8	27.1	26.7	25.8	24.5	20.8	16.8	16.2	15.1	18.2	20.3	20.3	20.7	18.1	16.4	12.8	2.1	0.3	11.1
20000	22.5	20.9	20.6	19.8	18.6	15.0	11.0	10.4	9.3	12.4	14.5	14.5	14.9	12.3	10.6	7.0	0.4	0.6	9.5
25000	15.5	14.1	13.9	13.2	12.2	8.6	4.6	4.0	2.9	6.0	8.1	8.1	8.5	5.9	4.2	0.6	0.0	0.2	7.9

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (A-8A AIRCRAFT
 (ENG. J52-P-8A
 (GROUND RUNUP
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-004-003
 (RUN 01
 (AIRCRAFT CODE 132
 (OPERATION CODE 01013
 (PROFILE VERSION A
 (31 OCT 75
 (PAGE J1
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = 0.0 DB
 (P=PNLT
 (A=AL
 (T=ALT

	20	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
A-6A AIRCRAFT																
ENG. J52-P-8A																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-003																
RUN 02																
AIRCRAFT CODE 132																
OPERATION CODE 01020																
PROFILE VERSION A																
31 OCT 75																
PAGE C2																
BAND CENTER																
FREQ (HZ)																
ANGLE (DEGREES)																
J 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																
50	71<	73<	75<	74<	75<	74<	70	70	71	75	78	81	81	82	74	64
63	71<	73<	75<	74<	75<	74<	70	72	72	75	81	85	84	84	75	65
80	71<	73<	75<	74<	75<	74<	73	73	74	76	83	86	86	83	73	63
100	71	73	75	74	75	74	74	76	78	81	83	86	89	82	72	62
125	72	73	75	75	74	74	75	76	79	81	83	87	90	89	78	68
160	75	76	78	79	78	77	77	77	80	83	86	87	91	88	72	65
200	74	76	79	80	78	77	77	79	81	83	86	87	89	85	69	62
250	74	75	76	77	77	74	77	76	81	83	85	86	87	83	67	60
315	72	75	74	76	73	74	75	76	81	84	87	86	86	80	67	58
400	73	75	75	74	73	75	76	78	80	84	86	84	85	77	65	56
500	75	76	76	76	75	76	77	78	80	84	86	84	83	76	66	56
630	76	79	80	79	78	77	77	78	81	84	86	82	82	74	66	56
800	78	78	78	79	77	76	77	77	81	85	86	82	80	73	66	55
1000	79	79	78	79	78	77	76	77	80	84	84	81	79	72	66	54
1250	79	78	78	78	76	77	74	74	80	82	82	79	77	70	64	52
1600	81	79	80	81	77	77	75	75	80	80	80	78	75	69	63	52
2000	84	81	83	82	79	78	76	75	78	78	78	77	74	67	62	51
2500	85	83	83	83	82	81	79	77	78	79	76	76	73	66	61	51
3150	93	94	90	90	89	87	84	82	81	79	78	77	74	67	63	53
4000	89	89	90	90	85	84	80	80	81	79	76	76	71	66	63	53
5000	93	93	95	95	89	86	82	83	81	80	76	76	71	66	63	54
6300	88	88	89	90	87	83	83	83	80	81	76	76	71	65	61	53
8000	84	85	86	87	85	81	80	78	79	78	77	74	70	62	59	51
10000	82	81	82	83	80	79	75	76	78	77	75	71	68	60	58	50
OVERALL	98	99	99	99	94	92	92	91	93	95	97	97	98	96	90	80
																70

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-6A AIRCRAFT																
ENG. J52-P-8A																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
METEOROLOGY:																
ANGLE (DEGREES)																
DISTANCE (FEET)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180													
200	115.4	115.8	115.8	116.3	112.6	111.2	108.5	107.4	107.0	108.1	109.2	108.9	107.4	106.1	101.5	94.0
250	113.1	113.5	113.4	113.8	110.3	108.8	106.1	105.1	104.7	105.7	106.9	106.6	105.1	103.9	99.3	91.7
315	110.7	111.1	110.9	111.3	107.9	106.4	103.7	102.7	102.3	103.2	104.5	104.3	102.8	101.7	97.1	89.5
400	108.2	108.6	108.2	108.7	105.4	103.9	101.2	100.1	99.8	100.7	102.0	101.8	100.4	99.4	94.8	87.0
500	105.5	106.0	105.4	105.8	102.7	101.2	98.6	97.5	97.2	98.0	99.4	99.2	98.0	97.0	92.5	84.4
630	102.8	103.2	102.4	102.8	99.9	98.4	95.8	94.7	94.5	95.1	96.6	96.5	95.3	94.4	89.9	81.8
800	99.8	100.2	99.1	99.6	96.9	95.5	92.9	91.8	91.6	92.2	93.7	93.8	92.5	91.7	87.2	78.9
1000	96.6	97.0	95.8	96.0	93.7	92.3	89.7	88.6	88.4	89.1	90.5	91.0	89.5	89.0	84.0	75.8
1250	93.1	93.5	91.7	92.1	90.3	88.8	86.3	85.2	85.1	85.8	87.2	88.2	86.5	86.1	80.7	72.4
1600	89.3	89.8	87.9	88.0	86.5	85.0	82.6	81.5	81.4	82.2	83.8	85.1	83.5	83.1	77.2	68.6
2000	85.2	85.6	83.6	83.8	82.3	80.9	78.5	77.4	77.4	78.4	80.5	81.9	80.2	79.8	73.8	64.7
2500	80.5	80.9	79.0	79.1	77.7	76.3	74.0	72.9	72.9	74.3	76.9	78.4	76.4	75.9	69.8	60.8
3150	75.3	75.6	73.7	73.9	72.5	71.1	68.9	67.9	68.0	70.2	73.0	74.4	72.3	71.5	65.3	56.3
4000	69.4	69.7	67.8	68.0	66.6	65.2	63.1	62.4	63.1	65.6	68.8	70.0	67.7	66.9	60.4	50.8
5000	62.7	63.0	61.7	61.6	60.0	58.6	56.8	57.2	58.1	60.9	64.2	65.2	62.8	61.9	55.0	44.4
6300	56.1	55.5	55.4	55.7	53.9	52.5	51.0	51.6	52.4	55.6	59.1	60.1	57.5	56.5	49.3	37.1
8000	49.1	49.3	49.3	49.5	48.5	47.0	45.6	46.1	47.5	50.8	54.5	55.9	53.4	52.4	44.6	31.0
10000	42.3	43.2	43.1	43.5	42.4	40.7	39.5	40.2	41.7	45.2	49.4	51.3	48.5	47.8	39.5	23.2
12500	34.6	35.8	36.0	36.4	35.3	33.6	32.4	33.4	34.9	38.9	43.3	46.1	43.2	42.4	33.8	13.5
16000	24.6	28.2	28.0	28.1	27.9	25.6	24.6	26.2	28.4	31.9	36.9	40.1	36.5	36.4	25.3	3.8
20000	12.4	16.9	16.0	16.6	15.8	12.8	12.6	14.4	17.5	22.9	29.6	32.9	29.3	29.4	12.1	
25000	.2	5.7	3.9	5.1	3.7	.0	.7	2.6	6.6	8.7	17.8	23.7	17.7	16.2		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(A-6A AIRCRAFT)																
(ENG. J52-P-8A)																
(GROUND RUNUP)																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(200)	117.6	118.5	117.5	117.9	114.5	112.8	110.1	108.5	108.2	108.1	109.2	108.9	107.4	106.1	101.5	94.0
(250)	115.2	116.2	115.1	115.4	112.2	110.5	107.8	106.2	105.9	105.7	106.9	106.6	105.1	103.9	99.3	91.7
(315)	112.8	113.8	112.5	112.9	109.8	108.1	105.4	103.8	103.5	103.2	104.5	104.3	102.8	101.7	97.1	89.5
(400)	110.3	111.3	109.9	110.3	107.2	105.5	102.9	101.3	101.0	100.7	102.0	101.8	100.4	99.4	94.8	87.0
(500)	107.7	108.6	107.1	107.5	104.6	102.9	100.3	98.7	98.4	98.0	99.4	99.2	98.0	97.0	92.5	84.4
(630)	104.9	105.9	104.0	104.4	101.8	100.1	97.5	95.9	95.6	95.1	96.6	96.5	95.3	94.4	89.9	81.8
(800)	101.9	102.9	100.8	101.2	98.8	97.1	94.6	92.9	92.7	92.2	93.7	93.8	92.5	91.7	87.2	78.9
(1000)	98.7	99.7	97.3	97.6	95.6	93.9	91.4	89.8	89.6	89.1	90.5	91.0	89.5	89.0	84.0	75.8
(1250)	95.3	96.2	93.4	93.7	92.1	90.5	88.0	86.3	86.2	85.8	87.2	88.2	86.5	86.1	80.7	72.4
(1600)	91.5	92.4	89.5	89.6	88.3	86.7	84.3	82.6	82.5	82.2	83.8	85.1	83.5	83.1	77.2	68.6
(2000)	87.3	88.2	85.3	85.4	84.2	82.5	80.2	78.5	78.6	78.4	80.5	81.9	80.2	79.8	73.8	64.7
(2500)	82.6	83.6	80.7	80.7	79.5	77.9	75.6	74.0	74.1	74.3	76.9	78.4	76.4	75.9	69.8	60.8
(3150)	77.4	78.3	75.4	75.5	74.3	72.7	70.5	69.0	69.1	70.2	73.0	74.4	72.3	71.5	65.3	56.3
(4000)	71.1	71.9	69.1	69.3	68.1	66.5	64.4	63.3	64.0	65.6	68.8	70.0	67.7	66.9	60.4	50.8
(5000)	64.0	64.6	62.7	62.6	61.1	59.6	57.8	57.9	58.8	60.9	64.2	65.2	62.8	61.9	55.0	44.4
(6300)	56.9	56.5	55.1	56.4	54.6	53.1	51.6	52.0	52.9	55.6	59.1	60.1	57.5	56.6	49.3	37.1
(8000)	49.5	49.8	49.6	49.8	48.9	47.3	45.9	46.3	47.7	50.8	54.5	55.9	53.4	52.4	44.6	31.0
(10000)	42.3	43.2	43.1	43.5	42.4	40.7	39.5	40.2	41.7	45.2	49.4	51.3	48.5	47.8	39.5	23.2
(12500)	34.6	35.8	36.0	36.4	35.3	33.6	32.4	33.4	34.9	38.9	43.3	46.1	43.2	42.4	33.8	13.5
(16000)	24.6	28.2	28.0	28.1	27.9	25.6	24.6	26.2	28.4	31.9	36.9	40.1	36.5	36.4	25.3	3.8
(20000)	12.4	18.9	16.0	16.6	15.8	12.8	12.6	14.4	17.5	22.9	29.6	32.9	29.3	29.4	12.1	
(25000)	.2	5.7	3.9	5.1	3.7	.0	.7	2.6	6.6	8.7	17.8	23.7	17.7	16.2		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-6A AIRCRAFT																
ENG. J52-P-8A																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-003																
RUN 02																
AIRCRAFT CODE 132																
OPERATION CODE 01020																
PROFILE VERSION A																
31 OCT 75																
PAGE F2																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	101.4	101.6	101.4	101.8	98.6	96.8	93.5	93.1	92.2	93.7	95.4	95.8	93.4	92.1	86.4	78.1
250	99.0	99.2	99.0	99.4	96.1	94.3	91.1	90.7	89.9	91.4	93.2	93.7	91.2	90.0	84.3	75.9
315	96.6	96.8	96.4	96.8	93.6	91.8	88.7	88.2	87.5	89.0	90.9	91.5	89.0	87.9	82.2	73.7
400	94.0	94.2	93.8	94.1	90.9	89.2	86.1	85.6	85.0	86.6	88.6	89.3	86.8	85.7	80.1	71.5
500	91.3	91.5	91.0	91.3	88.1	86.4	83.4	82.9	82.4	84.2	86.3	87.0	84.6	83.5	77.8	69.2
630	88.5	88.6	88.0	88.3	85.2	83.5	80.6	80.1	79.8	81.6	83.9	84.7	82.3	81.2	75.5	66.8
800	85.4	85.6	84.8	85.1	82.1	80.5	77.7	77.2	77.0	79.1	81.5	82.4	79.9	78.9	73.0	64.4
1000	82.2	82.3	81.5	81.7	78.9	77.3	74.7	74.2	74.2	76.4	79.0	80.0	77.4	76.5	70.5	61.9
1250	78.8	78.8	77.8	78.1	75.5	74.0	71.6	71.2	71.3	73.7	76.4	77.5	74.9	73.9	67.8	59.2
1600	75.1	75.1	74.0	74.2	71.9	70.5	68.3	68.0	68.3	70.9	73.8	74.9	72.2	71.2	64.9	56.4
2000	71.2	71.1	70.0	70.2	68.2	66.9	65.0	64.8	65.3	68.0	71.1	72.3	69.5	68.5	62.0	53.5
2500	67.0	66.9	65.8	66.1	64.3	63.2	61.5	61.5	62.1	65.0	68.1	69.4	66.5	65.4	58.7	50.4
3150	62.7	62.5	61.6	62.0	60.4	59.3	57.8	58.0	58.7	61.7	65.0	66.2	63.2	62.0	55.2	47.1
4000	58.2	57.9	57.3	57.7	56.2	55.3	53.9	54.3	54.9	58.1	61.5	62.7	59.6	58.2	51.3	43.4
5000	53.4	53.2	52.7	53.3	51.8	50.9	49.6	50.1	50.8	54.1	57.5	58.7	55.5	54.1	47.0	39.4
6300	48.5	48.4	47.9	48.6	47.2	46.3	45.1	45.7	46.4	49.7	53.3	54.4	51.2	49.7	42.6	35.1
8000	43.6	43.8	43.4	44.1	42.9	42.0	40.9	41.5	42.4	45.7	49.2	50.5	47.3	45.9	38.9	31.1
10000	38.5	39.1	38.7	39.4	38.4	37.3	36.4	37.1	38.0	41.2	44.8	46.3	43.1	41.9	34.9	26.8
12500	33.1	34.0	33.6	34.2	33.4	32.3	31.5	32.3	33.2	36.3	40.0	41.6	38.5	37.5	30.7	22.3
16000	27.3	28.5	28.1	28.7	28.0	26.8	26.2	27.0	28.1	31.0	34.6	36.5	33.5	32.8	26.3	17.6
20000	20.9	22.4	22.1	22.6	22.1	20.8	20.4	21.3	22.4	25.2	28.8	30.9	28.1	27.7	21.8	12.9
25000	14.0	15.7	15.6	16.0	15.5	14.3	14.2	15.0	16.2	18.9	22.4	24.7	22.3	22.4	17.2	8.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
A-6A AIRCRAFT																
ENG. J52-P-8A																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 75% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-003																
RUN 02																
AIRCRAFT CODE 132																
OPERATION CODE 01020																
PROFILE VERSION A																
31 OCT 75																
PAGE G2																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	103.5	104.3	103.1	103.4	100.4	98.4	95.2	94.2	93.4	93.7	95.4	95.8	93.4	92.1	86.4	78.1
250	101.2	101.9	100.7	101.0	98.0	96.0	92.8	91.8	91.0	91.4	93.2	93.7	91.2	90.0	84.3	75.9
315	98.7	99.4	98.1	98.4	95.4	93.5	90.3	89.3	88.6	89.0	90.9	91.5	89.0	87.9	82.2	73.7
400	96.1	96.8	95.5	95.8	92.8	90.8	87.8	86.7	86.1	86.6	88.6	89.3	86.8	85.7	80.1	71.5
500	93.4	94.1	92.7	92.9	90.0	88.1	85.1	84.0	83.6	84.2	86.3	87.0	84.6	83.5	77.8	69.2
630	90.6	91.3	89.7	89.9	87.1	85.2	82.3	81.3	80.9	81.6	83.9	84.7	82.3	81.2	75.5	66.8
800	87.6	88.2	86.5	86.7	84.0	82.2	79.4	78.4	78.2	79.1	81.5	82.4	79.9	78.9	73.0	64.4
1000	84.4	85.0	83.1	83.3	80.7	79.0	76.4	75.4	75.4	76.4	79.0	80.0	77.4	76.5	70.5	61.9
1250	80.9	81.5	79.5	79.7	77.3	75.7	73.3	72.3	72.5	73.7	76.4	77.5	74.9	73.9	67.8	59.2
1600	77.2	77.8	75.7	75.9	73.7	72.2	70.0	69.2	69.5	70.9	73.8	74.9	72.2	71.2	64.9	56.4
2000	73.3	73.8	71.7	71.8	70.0	68.6	66.6	66.0	66.4	68.0	71.1	72.3	69.5	68.5	62.0	53.5
2500	69.2	69.6	67.5	67.7	66.2	64.8	63.1	62.6	63.2	65.0	68.1	69.4	66.5	65.4	58.7	50.4
3150	64.8	65.2	63.3	63.6	62.2	61.0	59.5	59.2	59.8	61.7	65.0	66.2	63.2	62.0	55.2	47.1
4000	59.9	60.1	58.6	59.0	57.7	56.6	55.2	55.2	55.9	58.1	61.5	62.7	59.6	58.2	51.3	43.4
5000	54.7	54.8	53.7	54.2	52.9	51.9	50.6	50.8	51.5	54.1	57.5	58.7	55.5	54.1	47.0	39.4
6300	49.3	49.4	48.6	49.3	48.0	47.0	45.8	46.1	46.9	49.7	53.3	54.4	51.2	49.7	42.6	35.1
8060	44.0	44.4	43.8	44.4	43.3	42.3	41.2	41.8	42.6	45.7	49.2	50.5	47.3	45.9	38.9	31.1
10000	38.5	39.1	38.7	39.4	38.4	37.3	36.4	37.1	38.0	41.2	44.8	46.3	43.1	41.9	34.9	26.8
12500	33.1	34.0	33.6	34.2	33.4	32.3	31.5	32.3	33.2	36.3	40.0	41.6	38.5	37.5	30.7	22.3
16000	27.3	28.5	28.1	28.7	28.0	26.8	26.2	27.0	28.1	31.0	34.6	36.5	33.5	32.8	26.3	17.6
20000	20.9	22.4	22.1	22.6	22.1	20.8	20.4	21.3	22.4	25.2	28.8	30.9	28.1	27.7	21.8	12.9
25000	14.0	15.7	15.6	16.0	15.5	14.3	14.2	15.0	16.2	18.9	22.4	24.7	22.3	22.4	17.2	8.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 132																			
A-6A AIRCRAFT (MILITARY POWER, 99% RPM) TEMP = 59 F) OPERATION CODE 01004																			
ENG. J52-P-8A (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP (REL HUMID = 70 %) 31 OCT 75																			
(DELTA N = 0.0 DB) PAGE C3																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	88<	91<	92<	93<	91<	86	86	86	89	92	96	101	101	100	95	90	85	80	
63	88<	91<	92<	93<	91<	87	88	87	90	94	101	105	103	101	96	91	86	81	
80	88<	91<	92<	93<	91<	88	88	89	90	96	103	106	104	99	94	89	84	79	
100	88	91	92	93	91	91	90	92	95	100	109	111	106	99	94	89	84	79	
125	87	91	92	92	92	93	93	94	97	104	112	114	106	97	92	87	82	77	
160	89	91	92	92	93	94	94	96	100	106	114	117	107	96	91	86	81	76	
200	90	92	93	95	93	94	95	96	101	108	117	119	102	92	87	82	77	72	
250	91	93	94	95	94	96	97	98	100	103	112	117	102	99	91	86	81	76	71
315	92	93	95	97	96	97	98	99	101	105	113	118	122	96	95	90	85	80	75
400	100	102	100	100	98	98	99	100	101	104	112	117	122	100	96	91	86	81	76
500	102	105	101	103	100	102	100	101	101	105	113	117	122	98	94	89	84	79	74
630	103	107	108	106	106	105	101	102	101	105	113	115	120	98	94	89	84	79	74
800	99	105	106	106	107	107	104	105	103	106	112	115	119	98	94	89	84	79	74
1000	98	102	103	105	105	107	105	106	105	107	111	114	117	98	93	88	83	78	73
1250	96	101	103	103	103	104	105	106	107	110	113	116	116	97	91	86	81	76	71
1600	95	100	102	102	103	105	103	104	105	109	109	112	115	98	90	85	80	75	70
2000	94	99	101	101	102	104	104	104	104	107	108	111	115	97	89	84	79	74	69
2500	93	97	100	100	101	103	102	103	104	107	107	109	114	95	88	83	78	73	68
3150	94	97	98	98	99	101	102	102	102	105	106	108	112	92	86	81	76	71	66
4000	92	94	97	97	98	100	101	102	102	105	106	108	112	90	86	81	76	71	66
5000	89	91	94	94	95	97	100	100	100	103	105	108	110	88	85	80	75	70	65
6300	89	90	92	92	93	95	98	98	98	101	104	106	109	86	83	78	73	68	63
8000	87	88	91	91	92	93	97	96	96	100	101	104	108	84	81	76	71	66	61
10000	82	83	85	86	88	89	93	93	93	96	98	102	107	81	78	73	68	63	58
OVERALL	109	113	114	114	114	115	114	115	115	118	123	127	131	114	108	103	98	93	88

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			OMEGA 8.2	
NOISE SOURCE/SUBJECT:																			TEST 74-004-003	
(A-6A AIRCRAFT																			RUN 03	
(ENG. J52-P-8A																			AIRCRAFT CODE 132	
(GROUND RUNUP																			OPERATION CODE 01004	
																			PROFILE VERSION A	
																			31 OCT 75	
																			PAGE 03	
ANGLE (DEGREES)																				
(DISTANCE (FEET))	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	121.8	125.1	126.4	126.5	127.3	128.5	128.6	129.2	129.5	132.5	135.1	138.4	142.2	123.7	117.7	112.7	107.7	102.7	97.6	
250	119.5	122.8	124.2	124.3	125.1	126.3	126.3	127.0	127.3	130.3	132.8	136.2	140.0	121.6	115.6	110.6	105.5	100.5	95.3	
315	117.2	120.5	121.9	122.0	122.8	124.0	124.0	124.7	125.0	128.0	130.5	133.9	137.8	119.3	113.3	108.3	103.3	98.2	93.0	
400	114.8	118.2	119.6	119.7	120.4	121.6	121.6	122.3	122.6	125.6	128.1	131.6	135.4	117.0	111.0	106.0	101.0	95.8	90.6	
500	112.4	115.7	117.1	117.3	118.0	119.2	119.0	119.8	120.2	123.1	125.7	129.2	133.0	114.7	108.6	103.6	98.5	93.4	88.1	
630	109.8	113.3	114.6	114.7	115.5	116.6	116.4	117.2	117.6	120.5	123.2	126.6	130.5	112.2	106.2	101.1	96.0	90.8	85.6	
800	107.0	110.8	111.9	112.1	112.8	114.0	113.7	114.5	114.9	117.8	120.5	124.0	127.9	109.6	103.5	98.5	93.3	88.0	82.8	
1000	104.4	108.3	109.2	109.3	110.0	111.1	110.9	111.6	112.0	114.9	117.7	121.2	125.3	106.9	100.8	95.6	90.4	85.2	80.0	
1250	101.6	105.5	106.4	106.3	106.9	108.1	107.8	108.6	108.9	111.8	114.7	118.4	122.6	104.0	98.0	92.8	87.5	82.3	77.1	
1500	98.7	102.7	103.5	103.2	103.8	104.9	104.6	105.3	105.5	108.5	111.7	115.5	119.7	100.9	95.0	89.7	84.5	79.3	74.1	
2000	95.6	99.7	100.5	100.1	100.6	101.6	101.1	101.8	101.9	105.1	108.6	112.4	116.6	97.6	91.7	86.5	81.3	76.1	70.9	
2500	92.4	96.4	97.2	96.7	97.2	98.0	97.3	98.0	98.1	101.4	105.2	108.9	113.1	93.8	87.8	82.6	77.4	72.2	66.9	
3150	88.8	93.0	93.7	93.1	93.6	94.1	93.2	93.9	94.1	97.4	101.4	104.9	109.2	89.7	83.5	78.4	73.2	67.8	62.5	
4000	84.7	88.9	89.6	89.2	89.7	90.0	88.5	89.4	89.7	93.0	97.2	100.5	104.9	85.1	79.2	74.0	68.7	63.3	57.9	
5000	80.0	84.3	85.0	84.7	85.2	85.6	83.9	84.6	84.8	88.1	92.5	95.8	100.2	80.2	74.5	69.3	63.9	58.5	52.8	
6300	75.1	79.5	80.1	79.9	80.4	80.7	79.0	79.7	79.5	82.8	87.6	90.9	95.3	74.9	69.5	64.2	58.7	53.1	46.8	
8000	71.0	75.3	75.9	75.5	76.0	76.2	74.2	74.9	74.4	77.4	83.4	86.9	91.3	70.7	65.2	59.8	54.2	48.3	41.6	
10000	66.5	70.8	71.3	70.7	71.1	71.3	69.0	69.9	69.3	72.4	79.0	82.7	87.2	66.3	60.5	54.9	49.0	42.0	35.6	
12500	61.5	65.9	66.3	65.5	65.7	65.8	63.5	64.4	63.8	67.0	74.4	78.2	82.7	61.6	55.6	49.9	43.1	36.0	28.8	
15000	55.9	60.3	60.7	59.8	59.9	59.8	57.2	58.2	57.9	61.6	69.4	73.3	77.9	58.4	50.4	43.7	36.2	29.8	20.2	
20000	49.9	54.0	54.3	53.4	53.3	53.4	50.5	51.5	51.7	55.6	63.8	67.9	72.5	50.7	44.0	36.5	28.9	20.0	6.9	
25000	42.9	46.7	46.8	45.9	45.8	45.8	43.0	44.2	44.4	48.8	57.6	61.9	66.5	43.8	36.6	27.8	17.6	10.2		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
A-5A AIRCRAFT										TEMP = 59 F										
ENG. J52-P-8A										BAR PRESS = 29.92 IN HG										
GROUND RUNUP										REL HUMID = 70 %										
										DELTA N = 0.0 DB										
										ANGLE (DEGREES)										
DISTANCE																				
(FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	122.3	125.7	127.7	126.5	127.3	128.5	128.6	129.2	129.5	132.5	135.1	138.4	142.2	124.3	117.7	112.7	107.7	102.7	97.6	
250	120.1	123.4	125.5	124.3	125.1	126.3	126.3	127.0	127.3	130.3	132.8	136.2	140.0	122.1	115.6	110.6	105.5	100.5	95.3	
315	117.8	121.1	123.2	122.0	122.8	124.0	124.0	124.7	125.0	128.0	130.5	133.9	137.8	119.9	113.3	108.3	103.3	98.2	93.0	
400	115.4	118.8	120.9	119.7	120.4	121.6	121.6	122.3	122.6	125.6	128.1	131.6	135.4	117.6	111.0	106.0	101.0	95.8	90.6	
500	112.9	116.3	118.5	117.3	118.0	119.2	119.0	119.8	120.2	123.1	125.7	129.2	133.0	115.2	108.6	103.6	98.5	93.4	88.1	
630	110.3	113.9	115.9	114.7	115.5	116.6	116.4	117.2	117.6	120.5	123.2	126.6	130.5	112.8	106.2	101.1	96.0	90.8	85.6	
800	107.6	111.4	113.3	112.1	112.8	114.0	113.7	114.5	114.9	117.8	120.5	124.0	127.9	110.2	103.5	98.5	93.3	88.0	82.8	
1000	104.9	108.8	110.5	109.3	110.0	111.1	110.9	111.6	112.0	114.9	117.7	121.2	125.3	107.5	100.8	95.6	90.4	85.2	80.0	
1250	102.2	106.1	107.8	106.3	106.9	108.1	107.8	108.6	108.9	111.8	114.7	118.4	122.6	104.6	98.0	92.8	87.5	82.3	77.1	
1500	99.2	103.3	104.8	103.2	103.8	104.9	104.6	105.3	105.5	108.5	111.7	115.5	119.7	101.5	95.0	89.7	84.5	79.3	74.1	
2000	96.2	100.3	101.8	100.1	100.6	101.6	101.1	101.8	101.9	105.1	108.6	112.4	116.6	98.1	91.7	86.5	81.3	76.1	70.9	
2500	92.9	97.0	98.5	96.7	97.2	98.0	97.3	98.0	98.1	101.4	105.2	108.9	113.1	94.4	87.8	82.6	77.4	72.2	66.9	
3150	89.4	93.6	95.0	93.1	93.6	94.1	93.2	93.9	94.1	97.4	101.4	104.9	109.2	90.2	83.5	78.4	73.2	67.8	62.5	
4000	85.1	89.4	90.7	89.2	89.7	90.0	89.5	89.4	89.7	93.0	97.2	100.5	104.9	85.5	79.2	74.0	68.7	63.3	57.9	
5000	80.4	84.7	85.8	84.7	85.2	85.6	83.9	84.6	84.8	88.1	92.5	95.8	100.2	80.5	74.5	69.3	63.9	58.5	52.8	
6300	75.4	79.7	80.6	79.9	80.4	80.7	79.0	79.7	79.5	82.8	87.6	90.9	95.3	75.1	69.5	64.2	58.7	53.1	46.8	
8000	71.1	75.5	76.1	75.5	76.0	76.2	74.2	74.9	74.4	77.4	83.4	86.9	91.3	70.8	65.2	59.8	54.2	48.3	41.6	
10000	66.5	70.8	71.3	70.7	71.1	71.3	69.0	69.9	69.3	72.4	79.0	82.7	87.2	66.3	60.5	54.9	49.0	42.0	35.6	
12500	61.5	65.9	66.3	65.5	65.7	65.8	63.5	64.4	63.8	67.0	74.4	78.2	82.7	61.6	55.6	49.9	43.1	36.0	28.8	
15000	55.9	60.3	60.7	59.8	59.9	59.8	57.2	58.2	57.9	61.6	69.4	73.3	77.9	56.4	50.4	43.7	36.2	29.8	20.2	
20000	49.9	54.0	54.3	53.4	53.3	53.4	50.5	51.5	51.7	55.6	63.8	67.9	72.5	50.7	44.0	36.5	28.9	20.0	6.9	
25000	42.9	46.7	46.8	45.9	45.8	45.8	43.0	44.2	44.4	48.8	57.6	61.9	66.5	43.8	36.6	27.0	17.6	10.2		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-6A AIRCRAFT																			
ENG. J52-P-8A																			
GROUND RUNUP																			
OPERATION:																			
MILITARY POWER, 99% RPM																			
SINGLE ENGINE																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 132																			
OPERATION CODE 91004																			
PROFILE VERSION A																			
31 OCT 75																			
PAGE F3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-003																			
RUN 03																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
(FEET)																			
200	109.7	113.9	114.9	115.0	115.6	116.6	116.0	116.7	116.6	119.5	122.7	125.8	129.7	109.7	104.0	99.0	94.0	89.0	84.0
250	107.5	111.8	112.8	112.9	113.4	114.5	113.8	114.5	114.4	117.3	120.6	123.6	127.6	107.6	101.9	96.9	91.9	86.9	81.9
315	105.4	109.7	110.6	110.8	111.3	112.3	111.6	112.3	112.2	115.0	118.4	121.5	125.4	105.5	99.7	94.7	89.7	84.7	79.7
400	103.2	107.5	108.4	108.6	109.1	110.1	109.3	110.0	109.9	112.7	116.2	119.3	123.3	103.3	97.5	92.5	87.5	82.5	77.5
500	101.0	105.3	106.2	106.3	106.8	107.8	106.9	107.7	107.6	110.4	113.9	117.1	121.0	101.1	95.3	90.3	85.3	80.3	75.3
630	98.7	103.1	103.9	104.1	104.5	105.5	104.5	105.3	105.2	109.0	111.7	114.8	118.8	98.7	93.0	88.0	83.0	78.0	73.0
800	96.4	100.8	101.6	101.7	102.2	103.1	102.1	102.8	102.7	105.5	109.3	112.4	116.5	96.4	90.7	85.7	80.7	75.7	70.7
1000	94.1	98.4	99.2	99.3	99.7	100.7	99.5	100.3	100.1	102.9	106.9	110.0	114.1	93.9	88.3	83.3	78.3	73.3	68.3
1250	91.7	96.0	96.8	96.9	97.2	98.1	96.9	97.6	97.5	100.2	104.4	107.5	111.6	91.3	85.8	80.8	75.8	70.8	65.8
1600	89.2	93.5	94.2	94.3	94.6	95.5	94.1	94.9	94.7	97.4	101.8	104.9	109.1	88.7	83.2	78.2	73.2	68.2	63.2
2000	86.6	91.0	91.6	91.6	91.9	92.7	91.3	92.0	91.8	94.5	99.2	102.3	106.4	85.9	80.6	75.6	70.6	65.6	60.6
2500	83.8	88.2	88.8	88.8	89.1	89.8	88.2	89.0	88.6	91.4	96.3	99.3	103.5	82.8	77.6	72.6	67.6	62.6	57.6
3150	80.7	85.2	85.8	85.7	86.0	86.7	84.9	85.7	85.3	88.0	93.1	96.1	100.2	79.5	74.3	69.3	64.3	59.3	54.3
4000	77.2	81.7	82.3	82.3	82.6	83.2	81.4	82.2	81.7	84.3	89.5	92.5	96.6	75.8	70.8	65.8	60.8	55.8	50.8
5000	73.1	77.7	78.4	78.4	78.7	79.3	77.4	78.2	77.6	80.2	85.5	88.4	92.5	71.7	66.7	61.7	56.7	51.7	46.7
6300	68.8	73.4	74.1	74.2	74.5	75.0	73.1	73.8	73.2	75.8	81.2	84.1	88.1	67.3	62.4	57.4	52.4	47.4	42.4
8000	65.0	69.5	70.1	70.1	70.3	70.8	68.7	69.4	68.7	71.3	77.2	80.1	84.2	63.2	58.4	53.4	48.4	43.4	38.4
10000	60.8	65.3	65.7	65.6	65.8	66.1	63.8	64.6	63.9	66.5	72.9	75.8	80.1	58.7	54.1	49.1	44.1	39.1	34.1
12500	56.2	60.6	60.8	60.6	60.8	61.0	58.5	59.3	58.5	61.3	68.2	71.2	75.5	53.9	49.4	44.4	39.4	34.4	29.4
16000	51.1	55.4	55.4	55.1	55.2	55.3	52.6	53.5	52.7	55.7	63.0	66.1	70.5	48.8	44.2	39.2	34.2	29.2	24.2
20000	45.4	49.5	49.3	48.9	48.8	48.9	46.0	47.0	46.4	49.6	57.3	60.5	65.0	43.4	38.6	33.6	28.6	23.6	18.6
25000	39.1	42.9	42.4	42.0	41.7	41.8	38.9	40.0	39.6	43.0	51.0	54.4	59.0	37.8	32.7	27.7	22.7	17.7	12.7
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
A-5A AIRCRAFT																			
ENG. J52-P-8A																			
GROUND RUNUP																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	110.2	114.5	116.2	115.0	115.6	116.6	116.0	115.7	116.6	119.5	122.7	125.8	129.7	110.3	104.0	99.0	94.0	89.0	84.0
250	108.1	112.4	114.1	112.9	113.4	114.5	113.8	114.5	114.4	117.3	120.6	123.6	127.6	108.2	101.9	96.9	91.9	86.9	81.9
315	105.9	110.2	112.0	110.8	111.3	112.3	111.6	112.3	112.2	115.0	118.4	121.5	125.4	106.0	99.7	94.7	89.7	84.7	79.7
400	103.8	108.1	109.8	108.6	109.1	110.1	109.3	110.0	109.9	112.7	116.2	119.3	123.3	103.9	97.5	92.5	87.5	82.5	77.5
500	101.5	105.9	107.6	106.3	106.8	107.8	106.9	107.7	107.6	110.4	113.9	117.1	121.0	101.5	95.3	90.3	85.3	80.3	75.3
630	99.3	103.6	105.3	104.1	104.5	105.5	104.5	105.3	105.2	108.0	111.7	114.8	118.8	99.3	93.0	88.0	83.0	78.0	73.0
800	97.0	101.4	103.0	101.7	102.2	103.1	102.1	102.8	102.7	105.5	109.3	112.4	116.5	96.9	90.7	85.7	80.7	75.7	70.7
1000	94.6	99.0	100.6	99.3	99.7	100.7	99.5	100.3	100.1	102.9	106.9	110.0	114.1	94.5	88.3	83.3	78.3	73.3	68.3
1250	92.2	96.6	98.1	96.9	97.2	98.1	96.9	97.6	97.5	100.2	104.4	107.5	111.6	91.9	85.8	80.8	75.8	70.8	65.8
1600	89.7	94.1	95.6	94.3	94.6	95.5	94.1	94.9	94.7	97.4	101.8	104.9	109.1	89.2	83.2	78.2	73.2	68.2	63.2
2000	87.1	91.5	92.9	91.6	91.9	92.7	91.3	92.0	91.8	94.5	99.2	102.3	106.4	86.5	80.6	75.6	70.6	65.6	60.6
2500	84.3	88.8	90.1	88.8	89.1	89.8	88.2	89.0	88.6	91.4	96.3	99.3	103.5	83.4	77.6	72.6	67.6	62.6	57.6
3150	81.2	85.8	87.1	85.7	86.0	86.7	84.9	85.7	85.3	88.0	93.1	96.1	100.2	80.1	74.3	69.3	64.3	59.3	54.3
4000	77.6	82.2	83.4	82.3	82.6	83.2	81.4	82.2	81.7	84.3	89.5	92.5	96.6	76.3	70.8	65.8	60.8	55.8	50.8
5000	73.4	78.1	79.2	78.4	78.7	79.3	77.4	78.2	77.6	80.2	85.5	88.4	92.5	72.1	66.7	61.7	56.7	51.7	46.7
6300	69.0	73.7	74.6	74.2	74.5	75.0	73.1	73.8	73.2	75.8	81.2	84.1	88.1	67.5	62.4	57.4	52.4	47.4	42.4
8000	65.1	69.7	70.3	70.1	70.3	70.8	68.7	69.4	68.7	71.3	77.2	80.1	84.2	63.3	58.4	53.4	48.4	43.4	38.4
10000	60.8	65.3	65.7	65.6	65.8	66.1	63.8	64.6	63.9	66.5	72.9	75.8	80.1	58.7	54.1	49.1	44.1	39.1	34.1
12500	56.2	60.6	60.8	60.6	60.8	61.0	58.5	59.3	58.5	61.3	68.2	71.2	75.5	53.9	49.4	44.4	39.4	34.4	29.4
16000	51.1	55.4	55.4	55.1	55.2	55.3	52.6	53.5	52.7	55.7	63.0	66.1	70.5	48.8	44.2	39.2	34.2	29.2	24.2
20000	45.4	49.5	49.3	48.9	48.8	48.9	46.0	47.0	46.4	49.6	57.3	60.5	65.0	43.4	38.6	33.6	28.6	23.6	18.6
25000	39.1	42.9	42.4	42.0	41.7	41.8	38.9	40.0	39.6	43.0	51.0	54.4	59.0	37.8	32.7	27.7	22.7	17.7	12.7
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-003

RUN 03

AIRCRAFT CODE 132

OPERATION CODE 01004

PROFILE VERSION A

31 OCT 75

PAGE J3

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

A-5A AIRCRAFT

ENG. J52-P-8A

GROUND RUNUP

OPERATIONS:

MILITARY POWER, 99% RPM

SINGLE ENGINE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

A=AL

P=PNLT

T=ALT

	50	60	70	80	90	100	110	120	130	140	150
0							X	P			
10							X	P			
20							AT	P			
30							X	P			
40							X	P			
50							X	P			
60							X	P			
70							X	P			
80							X	P			
90							X	P			
100							X	P			
110							X	P			
120							X	P			
130							X	P			
140							X	P			
>150							X	P			
>160							X	P			
>170							X	P			
>180							X	P			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AD-A056 217

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 20/1
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)
MAR 78 J D SPEAKMAN, R G POWELL, R A LEE
AMRL-TR-73-110-VOL-6

UNCLASSIFIED

NL

3 OF 6

AD
A056217



	30	40	50	60	70	80	90	100	MEAN	SD
F 50	(.	71.8	4.0
R 63	(.	71.9	3.5
E 80	(.	72.5	4.1
I 100	(.	82.4	1.9
N 125	(.	89.5	2.2
H 160	(.	91.2	1.7
Z 200	(.	86.6	1.2
3150	(.	94.9	2.8
4000	(.	93.3	2.7
5000	(.	93.8	1.4
6300	(.	92.3	.9
8000	(.	93.8	1.9
10000	(.	94.0	2.2
	(.	94.9	2.1
	(.	95.2	1.8
	(.	97.2	2.9
	(.	96.3	2.4
	(.	94.6	2.0
	(.	93.1	1.8
	(.	91.0	1.8
	(.	87.3	2.2
	(.	83.5	2.5
	(.	78.9	2.9
	(.	71.7	3.1

AV-8A TAKEOFF POWER 103.5 % RPM
 AIRSPEED = 300 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-134-103-121275
 PNLT = 118.5 PNDB
 PNL = 117.7 PNDB
 ALT = 106.2 DBA
 AL = 105.4 DBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	IDENTIFICATION:			
AV-8A	122.5	123.4	135.8	136.6	118.4	119.3	OMEGA 6.6			
	120.3	121.1	133.5	134.3	117.2	118.1	A/C CODE: 134			
	117.9	118.8	131.1	132.0	115.8	116.7	OPS CODE: 103			
	115.6	116.4	128.7	129.5	114.5	115.4	PROFILE VER: A			
	113.1	114.0	126.1	126.9	113.0	113.9	12 DEC 75			
	110.6	111.5	123.4	124.2	111.5	112.4	PAGE 11			
	108.1	108.9	120.6	121.4	110.0	110.9	DELTA N = 0.0 DB			
	105.4	106.2	117.7	118.5	108.3	109.2				
	102.6	103.4	114.7	115.5	106.5	107.4				
	99.7	100.5	111.5	112.3	104.6	105.5				
	96.7	97.5	108.2	109.0	102.6	103.5				
	93.6	94.4	104.6	105.4	100.5	101.4				
	90.3	91.1	101.0	101.8	98.2	99.1				
	86.8	87.5	97.1	97.7	95.7	96.4				
	83.2	83.7	92.9	93.4	93.1	93.6				
	79.4	79.8	88.8	89.1	90.3	90.7				
	75.6	75.7	85.0	85.2	87.5	87.6				
	71.6	71.6	81.1	81.1	84.5	84.5				
	67.5	67.5	76.9	76.9	81.3	81.3				
	63.2	63.2	72.7	72.7	78.1	78.1				
	58.8	58.8	68.1	68.1	74.7	74.7				
	54.1	54.1	63.1	63.1	71.0	71.0				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 134	
AV-8A																									OPS CODE: 103	
																									PROFILE VER: A	
																									12 DEC 75	
																									PAGE L1	
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	81	81	82	91	99	100	96	104	103	103	102	104	104	105	106	108	108	107	107	107	104	103	104	104		
250	79	79	80	89	97	98	94	102	101	101	100	102	102	103	104	106	106	105	104	104	101	101	101	100		
315	77	77	78	87	95	96	92	100	99	99	98	100	100	101	102	104	103	102	102	102	99	98	97	96		
400	75	75	76	85	93	94	90	98	97	97	96	97	98	99	99	102	101	100	100	99	96	95	94	92		
500	73	73	74	83	90	92	87	96	95	95	94	95	96	97	97	100	99	98	97	96	93	91	90	87		
630	71	71	72	81	88	89	85	93	93	93	92	93	94	94	95	97	96	95	94	93	90	88	85	81		
800	69	69	70	79	85	86	82	91	90	91	89	91	91	92	93	95	94	92	91	90	86	83	80	75		
1000	67	67	68	76	82	83	79	88	88	89	87	89	89	90	90	92	91	90	88	86	82	79	74	67		
1250	65	65	64	73	79	80	76	84	85	87	85	87	87	87	88	90	88	86	85	82	78	73	67	57		
1600	63	62	61	70	76	77	72	81	82	84	83	84	84	85	85	87	85	83	81	77	73	67	58	46		
2000	60	58	57	66	72	73	68	77	78	82	81	82	82	82	82	84	82	79	76	72	67	59	48	32		
2500	56	54	53	61	68	69	64	73	74	79	78	79	79	80	79	80	78	75	71	66	60	50	36	15		
3150	52	50	49	57	63	64	59	68	70	74	75	77	76	77	76	77	74	70	66	59	52	39	21			
4000	48	45	43	51	57	58	53	62	65	70	71	73	73	73	72	73	70	65	59	50	42	26	3			
5000	42	40	39	46	52	53	48	57	59	64	67	69	70	70	68	68	64	59	51	40	30	10				
6300	37	35	34	42	48	48	44	52	53	59	62	65	65	65	66	64	63	58	51	42	27	16				
8000	35	33	32	39	45	46	41	49	50	56	59	61	61	61	59	57	51	42	30	12						
10000	33	31	29	37	43	44	38	46	47	52	55	57	57	56	53	49	42	31	16							
12500	31	29	27	35	40	41	36	43	44	49	51	53	52	50	46	41	32	18								
16000	29	27	25	32	38	38	33	40	40	45	47	47	46	43	37	31	19	2								
20000	26	24	22	30	35	35	29	37	36	40	42	41	39	34	27	18	4									
25000	24	22	20	27	32	32	26	33	32	35	36	34	30	24	15	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATIONS:	METEOROLOGY:	IDENTIFICATION:						
AV-8A	TAKEOFF POWER 103.5 % RPM	TEMP REL HUMID = 70 %	OMEGA 6.6						
	AIRSPEED = 300 KNOTS	DELTA N = 0.0 DB							
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	117.5	118.2	130.8	131.5	113.4	114.2	117.3		
250	115.3	115.9	128.5	129.2	112.2	112.9	116.0		
315	112.9	113.6	126.1	126.8	110.8	111.6	114.6		
400	110.6	111.3	123.7	124.4	109.5	110.2	113.1		
500	108.1	108.8	121.1	121.8	108.0	108.8	111.5		
630	105.6	106.3	118.4	119.0	106.5	107.3	109.8		
800	103.0	103.7	115.5	116.2	104.9	105.7	107.9		
1000	100.4	101.0	112.5	113.2	103.3	104.0	106.0		
1250	97.6	98.2	109.3	110.0	101.5	102.2	103.8		
1600	94.6	95.3	106.0	106.7	99.5	100.3	101.4		
2000	91.6	92.2	102.4	103.1	97.5	98.2	98.9		
2500	88.3	89.0	98.5	99.2	95.2	95.9	95.9		
3150	84.8	85.4	94.4	95.1	92.7	93.4	92.8		
4000	80.9	81.5	89.8	90.3	89.8	90.4	89.1		
5000	76.6	77.0	84.8	85.2	86.5	87.0	84.9		
6300	72.0	72.3	79.3	79.6	82.9	83.2	80.3		
8000	67.3	67.5	73.7	73.8	79.2	79.4	75.5		
10000	62.3	62.3	68.2	68.2	75.2	75.2	70.8		
12500	56.9	56.9	62.8	62.8	70.8	70.8	66.5		
16000	51.1	51.1	56.8	56.8	66.0	66.0	61.5		
20000	44.9	44.9	50.3	50.3	60.8	60.8	55.9		
25000	38.1	38.1	42.6	42.6	55.0	55.0	49.3		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	AV-8A	TAKEOFF POWER	ST-E
200	(((
250	(	103.5 % RPM	(
315	(	AIR SPEED = 300 KNOTS	(
400	(	TEMP = 59 F REL HUMID = 70 %	(
500	(	DELTA N = 0.0 DB	(
	(	NO. OF RECORDS: 6	(
	(	IDENT: 6.6-134-103-121275-A	(
	(((
S 630	(((
L 800	(((
A 1000	(((
N 1250	(((
T 1600	(((
O 2000	(((
I 2500	(((
S 3150	(((
Y 4000	(((
A 5000	(((
N 6300	(((
C 8000	(((
E 10000	(((
I 12500	(((
N 16000	(((
4000	(((
5000	(((
6000	(((
7000	(((
8000	(((
9000	(((
10000	(((
11000	(((
12000	(((
13000	(((
14000	(((
15000	(((
16000	(((
17000	(((
18000	(((
19000	(((
20000	(((
21000	(((
22000	(((
23000	(((
24000	(((
25000	(((

	20	30	40	50	60	70	80	90	MEAN	SD
F 50	(.	(.	(.	(.	(.	(.	(.	(.	61.6	3.5
R 63	(.	(.	(.	(.	(.	(.	(.	(.	64.4	3.9
E 80	(.	(.	(.	(.	(.	(.	(.	(.	68.9	6.0
Q 100	(.	(.	(.	(.	(.	(.	(.	(.	77.2	3.2
U 125	(.	(.	(.	(.	(.	(.	(.	(.	82.7	4.8
E 160	(.	(.	(.	(.	(.	(.	(.	(.	83.4	4.6
Q 200	(.	(.	(.	(.	(.	(.	(.	(.	75.9	3.6
U 250	(.	(.	(.	(.	(.	(.	(.	(.	82.0	3.4
E 315	(.	(.	(.	(.	(.	(.	(.	(.	81.0	1.9
N 400	(.	(.	(.	(.	(.	(.	(.	(.	81.9	1.7
C 500	(.	(.	(.	(.	(.	(.	(.	(.	81.3	1.5
Y 630	(.	(.	(.	(.	(.	(.	(.	(.	81.7	1.1
I 800	(.	(.	(.	(.	(.	(.	(.	(.	82.1	1.4
N 1000	(.	(.	(.	(.	(.	(.	(.	(.	82.5	.9
H 1250	(.	(.	(.	(.	(.	(.	(.	(.	81.9	1.0
Z 1600	(.	(.	(.	(.	(.	(.	(.	(.	82.4	.3
2000	(.	(.	(.	(.	(.	(.	(.	(.	81.8	.9
2500	(.	(.	(.	(.	(.	(.	(.	(.	79.7	1.1
3150	(.	(.	(.	(.	(.	(.	(.	(.	82.8	2.4
4000	(.	(.	(.	(.	(.	(.	(.	(.	80.4	3.0
5000	(.	(.	(.	(.	(.	(.	(.	(.	77.0	3.3
6300	(.	(.	(.	(.	(.	(.	(.	(.	73.5	4.2
8000	(.	(.	(.	(.	(.	(.	(.	(.	67.3	5.1
10000	(.	(.	(.	(.	(.	(.	(.	(.	54.7	5.9

AV-8A CRUISE POWER 75 X RPM
 AIRSPEED = 350 KNOTS TEMP = 59 F PNLT = 106.9 PNDB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 106.2 PNDB
 NO. OF RECORDS = 3 IDENT: 6.6-134-104-121275 ALT = 93.2 DBA
 AL = 92.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
(OPERATION:) METEOROLOGY:																										
(CRUISE POWER) TEMP																										
(75 % RPM) REL HUMID = 70 %																										
(AV-8A)																										
(AIRSPEED = 350 KNOTS) DELTA N = 0.0 DB																										
PAGE H2																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	76	79	83	91	97	98	90	96	95	96	96	96	97	98	97	98	98	97	101	101	98	98	96	91		
250	74	77	81	89	95	96	88	94	93	94	94	94	95	96	95	96	96	95	99	98	96	95	93	87		
315	72	74	79	87	93	94	86	92	91	92	92	92	93	93	93	94	94	93	97	96	93	92	90	84		
400	70	72	77	85	91	92	84	90	89	90	90	90	91	91	91	92	92	90	94	93	90	89	87	79		
500	68	70	75	83	89	90	82	88	87	88	88	88	89	89	89	90	89	88	92	90	88	86	83	75		
630	66	68	73	81	87	87	80	86	85	86	86	86	87	87	87	87	87	85	89	87	84	82	78	69		
800	64	66	71	79	85	85	78	84	83	84	83	84	84	85	84	85	84	83	86	84	81	78	73	62		
1000	62	64	69	77	83	83	76	82	81	82	81	82	82	82	82	82	82	80	83	80	77	74	67	55		
1250	60	62	67	75	81	81	74	80	79	80	79	79	80	80	79	80	79	77	79	76	73	68	60	46		
1600	58	60	65	73	79	79	72	78	77	78	77	77	77	78	77	77	76	73	76	72	68	62	52	35		
2000	56	58	63	71	76	77	70	76	75	75	75	75	75	75	74	74	73	70	71	67	62	55	43	21		
2500	53	56	61	69	74	75	67	73	72	73	72	72	72	72	71	71	69	66	66	61	55	46	31	5		
3150	51	54	59	67	72	73	65	71	70	71	70	70	70	69	68	67	65	61	61	54	47	35	16			
4000	49	52	57	65	70	71	63	69	68	68	67	67	67	66	64	63	61	56	54	45	38	23				
5000	47	50	54	63	68	68	61	67	65	65	64	64	63	62	60	59	55	49	47	35	26	7				
6300	45	48	52	60	66	66	58	64	63	63	61	61	60	59	56	54	49	42	37	23	12					
8000	43	46	50	58	63	64	56	61	60	60	58	57	56	54	51	48	42	33	26	8						
10000	41	44	48	56	61	61	53	59	57	57	55	53	51	49	45	41	34	23	13							
12500	39	41	46	54	59	59	50	56	54	53	51	49	46	43	38	32	24	10								
16000	37	39	43	51	56	56	48	53	50	49	46	44	40	36	30	22	12									
20000	34	37	41	48	53	53	44	49	46	45	41	38	34	28	20	10										
25000	32	34	38	46	50	50	41	45	42	40	35	31	25	18	8											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
(OPERATION:) METEOROLOGY:										A/C CODE: 134	
(CRUISE POWER) TEMP										OPS CODE: 104	
(75 % RPM) REL HUMID = 70 %										PROFILE VER: A	
()										12 DEC 75	
(AIRSPEED = 350 KNOTS) DELTA N = 0.0 DB										PAGE 12	
METEOROLOGY:											
TEMP											
REL HUMID = 70 %											
DELTA N = 0.0 DB											
SLANT DISTANCE										SELT**	
(FEET)	AL	ALT**	PNL	PNLT**	SEL	(DB)	(DB)	EPNL**	(EPNDB)		
	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)						
200	109.9	110.6	124.3	125.0	107.7	108.9		112.6			
250	107.6	108.3	122.0	122.7	106.5	107.6		111.3			
315	105.3	106.0	119.6	120.3	105.1	106.3		110.0			
400	102.9	103.6	117.2	117.9	103.7	104.9		108.5			
500	100.4	101.1	114.6	115.3	102.2	103.4		107.0			
630	97.9	98.6	112.0	112.7	100.7	101.8		105.3			
800	95.2	95.9	109.2	109.9	99.1	100.2		103.5			
1000	92.5	93.2	106.2	106.9	97.3	98.5		101.5			
1250	89.7	90.4	103.0	103.7	95.5	96.7		99.4			
1600	86.8	87.5	99.6	100.3	93.6	94.8		97.0			
2000	83.8	84.5	96.0	96.7	91.6	92.8		94.3			
2500	80.7	81.4	92.0	92.7	89.6	90.7		91.4			
3150	77.6	78.3	88.2	88.9	87.4	88.5		88.5			
4000	74.3	74.9	84.4	84.9	85.1	86.0		85.5			
5000	70.9	71.3	80.5	80.9	82.7	83.4		82.4			
6300	67.4	67.7	76.8	77.1	80.2	80.7		79.5			
8000	63.8	63.9	73.0	73.2	77.6	77.8		76.5			
10000	60.0	60.0	69.1	69.1	74.8	74.8		73.3			
12500	56.1	56.1	64.9	64.9	71.9	71.9		70.1			
16000	52.0	52.0	60.4	60.4	68.8	68.8		66.6			
20000	47.8	47.8	55.8	55.8	65.6	65.6		63.0			
25000	43.5	43.5	51.0	51.0	62.3	62.3		59.2			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																																		IDENTIFICATION:		
GROUND-TO-GROUND PROPAGATION																																		OMEGA 6.6		
(OPERATION:) METEOROLOGY:)																																				
(CRUISE POWER) TEMP = 59 F)																																				
(75 % RPM) REL HUMID = 70 %)																																				
(AV-8A))																																				
(AIRSPEED = 350 KNOTS) DELTA N = 0.0 DB)																																				
FREQUENCY BAND NUMBER																																				
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
200	71	74	78	86	92	93	95	91	90	91	91	91	92	93	92	93	93	92	96	96	93	93	93	91	86											
250	69	72	76	84	90	91	83	89	88	89	89	89	90	91	90	91	91	90	94	94	93	91	90	88	82											
315	67	69	74	82	88	89	81	87	86	87	87	87	88	88	88	89	89	88	92	91	88	87	85	79												
400	65	67	72	80	86	86	79	85	84	85	85	85	86	86	86	87	87	85	89	88	85	84	82	74												
500	63	65	70	78	84	84	76	83	82	83	83	83	84	84	84	85	84	83	87	85	83	81	78	70												
630	61	63	68	76	81	81	74	80	80	81	81	81	82	82	82	82	82	80	84	82	79	77	73	64												
800	59	61	66	74	78	79	71	78	78	79	78	79	79	80	79	80	79	78	81	79	76	73	68	57												
1000	57	59	64	71	75	76	68	75	76	77	76	77	77	77	77	77	77	75	78	75	72	69	62	50												
1250	55	57	61	68	72	72	65	72	73	75	74	74	75	75	74	75	74	72	74	71	68	63	55	41												
1600	53	54	57	64	69	69	61	68	70	73	72	72	72	73	72	72	71	68	71	67	63	57	47	30												
2000	49	51	54	61	65	65	58	64	66	70	70	70	70	70	69	69	68	65	66	62	57	50	38	16												
2500	46	47	50	56	61	61	53	60	62	67	67	67	67	67	66	66	64	61	61	56	50	41	26													
3150	42	42	45	51	56	56	48	55	58	62	64	65	65	64	63	62	60	56	56	49	42	30	11													
4000	37	37	40	46	50	50	43	49	52	58	60	61	62	61	53	58	56	51	49	40	33	18														
5000	32	33	35	41	45	45	38	44	47	52	56	57	58	57	55	54	50	44	42	30	21	7														
6300	27	28	30	36	41	41	33	39	41	47	51	53	54	54	51	49	44	37	32	18																
8000	25	26	28	34	38	38	30	36	38	44	48	49	50	49	46	43	37	28	21	3																
10000	23	24	26	32	36	36	28	34	35	41	45	45	45	44	40	36	29	18	8																	
12500	21	21	24	30	34	33	25	31	32	37	41	41	41	40	38	33	27	19	5																	
16000	19	19	21	27	31	30	22	28	28	33	36	36	34	31	25	17	7																			
20000	16	17	19	24	28	27	19	24	24	29	31	30	28	23	15	5																				
25000	14	14	16	22	25	24	15	20	20	24	25	23	19	13	3																					

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**				
(FEET)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)				
200	104.9	105.6	119.3	119.9	102.7	103.8	107.6				
250	102.6	103.3	117.0	117.6	101.5	102.6	106.3				
315	100.3	100.9	114.6	115.3	100.1	101.2	104.9				
400	97.9	98.5	112.2	112.8	98.7	99.8	103.5				
500	95.4	96.1	109.6	110.2	97.2	98.3	101.9				
630	92.9	93.5	106.9	107.5	95.7	96.8	100.2				
800	90.2	90.9	104.0	104.7	94.0	95.1	98.3				
1000	87.5	88.1	100.9	101.6	92.3	93.4	96.2				
1250	84.6	85.3	97.6	98.2	90.4	91.5	93.9				
1600	81.7	82.3	94.0	94.6	88.5	89.6	91.3				
2000	78.6	79.3	90.0	90.7	86.4	87.5	88.3				
2500	75.4	76.0	85.7	86.3	84.2	85.3	85.0				
3150	71.9	72.6	81.3	81.9	81.7	82.8	81.6				
4000	68.2	68.7	76.7	77.2	79.0	79.9	77.7				
5000	64.1	64.4	71.6	72.0	75.9	76.5	73.4				
6300	59.6	59.8	66.1	66.4	72.4	72.8	68.7				
8000	55.2	55.3	61.0	61.2	69.0	69.2	64.5				
10000	50.5	50.5	55.9	55.9	65.3	65.3	60.1				
12500	45.3	45.3	50.4	50.4	61.2	61.2	55.6				
16000	39.8	39.8	43.9	43.9	56.6	56.6	50.1				
20000	33.8	33.8	36.7	36.7	51.6	51.6	43.9				
25000	27.2	27.2	27.6	27.6	46.1	46.1	35.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

AV-8A APPROACH POWER 70 % RPM

AIR SPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

NO. OF RECORDS = 3

PNLT	=	107.0	PNDB
PNL	=	107.0	PNDB
ALT	=	93.7	DBA
AL	=	93.7	DBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SELT**	EPNL**	IDENTIFICATION:
AV-8A	70 % RPM								OMEGA 6.6
	AIR SPEED = 150 KNOTS								A/C CODE: 134
									OPS CODE: 105
									PROFILE VER: A
									12 DEC 75
									PAGE 13
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	111.1	111.1	125.2	125.2	110.0	111.6	115.7		
250	108.8	108.8	122.9	122.9	108.7	110.3	114.4		
315	106.5	106.5	120.5	120.5	107.4	109.0	113.0		
400	104.1	104.1	118.0	118.0	106.0	107.6	111.5		
500	101.6	101.6	115.5	115.5	104.5	106.1	110.0		
630	99.1	99.1	112.8	112.8	102.9	104.5	108.3		
800	96.4	96.4	110.0	110.0	101.3	102.9	106.5		
1000	93.7	93.7	107.0	107.0	99.6	101.2	104.5		
1250	90.9	90.9	103.8	103.8	97.8	99.4	102.3		
1600	88.0	88.0	100.4	100.4	95.9	97.5	99.9		
2000	85.0	85.0	96.7	96.7	93.9	95.5	97.2		
2500	82.0	82.0	92.8	92.8	91.8	93.4	94.3		
3150	78.8	78.8	88.9	88.9	89.7	91.3	91.4		
4000	75.5	75.5	85.0	85.0	87.4	88.7	88.2		
5000	72.1	72.1	81.4	81.4	85.0	85.9	85.3		
6300	68.5	68.5	77.7	77.7	82.4	83.0	82.3		
8000	64.7	64.7	73.9	73.9	79.6	80.0	79.1		
10000	60.8	60.8	69.9	69.9	76.7	76.7	75.8		
12500	56.7	56.7	65.6	65.6	73.6	73.6	72.5		
16000	52.3	52.3	61.1	61.1	70.2	70.2	69.0		
20000	47.7	47.7	56.1	56.1	66.6	66.6	65.0		
25000	42.9	42.9	50.6	50.6	62.8	62.8	60.5		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	APPROACH POWER										S-T-E		
200	(	AV-8A	70 % RPM	.	.	.	.	.	.	ST	E	.
250	(	AIRSPEED = 150 KNOTS		.	.	.	.	.	.	ST	E	.
315	(	TEMP = 59 F	REL HUMID = 70 %	.	.	.	.	.	.	ST	E	.
400	(	DELTA N = 0.0 DB		.	.	.	.	.	.	ST	E	.
500	(	NO. OF RECORDS: 3		.	.	.	.	.	.	ST	E	.
	(	IDENT: 6.6-134-105-121275-A		.	.	.	.	.	.	ST	E	.
	(.	ST	E	.	
S 630	(.	ST	E	.	
L 800	(.	ST	E	.	
N 1000	(.	ST	E	.	
D 1250	(.	ST	E	.	
I 1600	(.	ST	E	.	
S 2000	(.	ST	E	.	
A 2500	(.	ST	E	.	
C 3150	(.	ST	E	.	
E 4000	(.	ST	E	.	
I 5000	(.	ST	E	.	
N 6300	(.	ST	E	.	
F 8000	(.	ST	E	.	
E 10000	(.	ST	E	.	
E 12500	(.	ST	E	.	
T 16000	(.	ST	E	.	
20000	(.	ST	E	.	
25000	(.	ST	E	.	

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 134	
AV-8A																									OPS CODE: 105	
((OPERATION:) METEOROLOGY:)																									PROFILE VER: A	
((APPROACH POWER) TEMP = 59 F)																									12 DEC 75	
((70 % RPM) REL HUMID = 70 %)																									PAGE L3	
((AIRSPEED = 150 KNOTS) DELTA N = 0.0 DB)																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	77	74	75	85	89	90	85	89	89	93	92	93	93	94	94	94	94	93	97	97	93	94	93	88		
250	75	72	73	83	87	88	83	87	87	91	90	91	91	92	92	92	92	91	95	95	91	91	90	85		
315	73	70	71	81	85	86	81	85	85	89	88	89	89	90	90	90	90	89	92	92	88	89	87	81		
400	71	68	69	79	83	84	79	83	83	87	86	87	87	87	88	88	88	86	90	90	85	85	84	77		
500	69	66	67	77	81	81	76	80	81	85	84	85	85	85	86	86	86	84	87	87	82	82	80	72		
630	67	64	65	75	78	79	74	78	79	83	82	83	83	83	84	83	83	81	85	84	79	78	75	66		
800	65	62	63	72	76	76	71	75	77	81	80	81	80	81	81	81	81	79	82	81	76	74	70	60		
1000	63	60	61	69	73	73	68	72	75	79	78	79	78	79	79	78	78	76	79	77	72	70	65	52		
1250	61	58	58	66	70	70	65	69	72	77	76	76	76	76	76	76	75	73	75	73	68	64	58	43		
1600	59	55	55	63	66	66	61	65	68	74	73	74	73	74	74	73	72	70	72	69	63	58	50	32		
2000	55	51	51	59	62	63	57	61	65	72	71	72	71	71	71	70	69	66	67	64	57	51	40	19		
2500	52	47	47	55	58	58	53	57	61	69	69	69	68	68	68	67	65	62	62	58	50	42	28	3		
3150	48	43	42	50	53	53	48	52	56	64	65	67	66	65	65	63	61	57	57	51	42	32	14			
4000	43	38	37	44	48	48	42	46	51	60	61	63	63	62	61	59	57	52	50	42	33	20				
5000	38	33	32	39	43	43	37	41	45	54	57	59	59	59	57	55	52	46	43	32	22	4				
6300	33	28	28	35	38	38	33	36	39	49	53	55	55	55	53	50	46	38	34	20	8					
8000	31	26	25	33	36	36	30	34	37	46	50	51	51	50	48	44	39	30	23	6						
10000	29	24	23	30	33	33	28	31	34	43	46	47	47	45	42	37	30	20	10							
12500	27	22	21	28	31	31	25	28	31	39	42	43	42	39	35	29	20	7								
16000	25	19	19	25	28	28	22	25	27	35	38	38	36	33	27	19	8									
20000	22	17	16	23	26	25	19	21	23	31	33	32	29	25	18	7										
25000	20	15	14	20	23	22	15	18	19	26	27	25	21	15	6											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION											
(OPERATION:) METEOROLOGY:											
(APPROACH POWER) TEMP											
(70 % RPM) REL HUMID = 70 %											
(AIRSPEED = 150 KNOTS) DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	106.1	106.1	120.2	120.2	105.0	106.6	110.7				
250	103.8	103.8	117.9	117.9	103.7	105.3	109.4				
315	101.5	101.5	115.5	115.5	102.4	104.0	107.9				
400	99.1	99.1	113.0	113.0	101.0	102.6	106.5				
500	96.6	96.6	110.4	110.4	99.5	101.1	104.9				
630	94.0	94.0	107.7	107.7	97.9	99.5	103.2				
800	91.4	91.4	104.9	104.9	96.3	97.9	101.4				
1000	88.7	88.7	101.8	101.8	94.6	96.2	99.3				
1250	85.9	85.9	98.5	98.5	92.8	94.4	97.0				
1600	82.9	82.9	94.9	94.9	90.8	92.4	94.4				
2000	79.9	79.9	91.0	91.0	88.8	90.4	91.5				
2500	76.7	76.7	86.6	86.6	86.6	88.2	88.1				
3150	73.3	73.3	82.3	82.3	84.2	85.8	84.7				
4000	69.6	69.6	77.7	77.7	81.5	82.8	80.8				
5000	65.5	65.5	72.7	72.7	78.4	79.3	76.5				
6300	61.0	61.0	67.2	67.2	74.9	75.6	71.8				
8000	56.7	56.7	62.3	62.3	71.6	71.9	67.5				
10000	52.0	52.0	57.4	57.4	57.9	67.9	63.3				
12500	46.9	46.9	52.0	52.0	63.8	63.8	58.9				
16000	41.4	41.4	45.4	45.4	59.3	59.3	53.2				
20000	35.4	35.4	38.2	38.2	54.3	54.3	47.1				
25000	28.8	28.8	29.7	29.7	48.7	48.7	39.6				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

NOISE PRODUCED ON THE GROUND BY

AV-8A AIRCRAFT

OURING GROUND RUN-UP OPERATIONS

TEST 74-004-005
AIRCRAFT CODE: 134
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

PAGE

IDLE - 27% RPM, 325 C EGT, 1200 LBS/HR	218 -
55% RPM, 350 C EGT, 2820 LBS/HR	224 -
50 FOOT HOVER, 98% RPM, 680 C EGT, 12360 LBS/HR	235 -

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

06 NOV 75

AEROSPACE MEDICAL RESEARCH LABORATORY
AERIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																	
1/3 OCTAVE BAND																	
DISTANCE = 250 FEET																	
NOISE SOURCE/SUBJECT:																	
(AV-8A AIRCRAFT																	
(ENG. F402-RR-401																	
(GROUND RUNUP																	
(OPERATION:																	
(IDLE, 27% RPM																	
(SINGLE ENGINE																	
(METEOROLOGY:																	
(TEMP = 59 F																	
(BAR PRESS = 29.92 IN HG																	
(REL HUMID = 70 %																	
(DELTA N = 0.0 DB																	
) IDENTIFICATION:																	
) OMEGA 8.2																	
) TEST 74-004-005																	
) RUN 01																	
) AIRCRAFT CODE 134																	
) OPERATION CODE 01013																	
) PROFILE VERSION A																	
) 06 NOV 75																	
) PAGE C1																	
) BAND CENTER																	
FREQ (HZ)																	
ANGLE (DEGREES)																	
70 80 90 100 110 120 130 140 150 160 >170 >180																	
50	74	74	73	73	72	74	74	74	73	73	74	76	77	77	75	65	55
63	76	77	77	77	76	76	74	74	71	74	75	76	79	80	79	77	67
80	73	74	73	74	73	71	69	66	67	68	70	72	77	77	77	70	60
100	72	72	72	72	69	70	73	73	74	72	70	69	71	73	74	66	56
125	70	70	70	70	70	70	72	71	69	69	70	72	72	71	72	59	49
160	70	71	71	72	71	69	68	67	67	66	68	70	72	73	70	57	47
200	70	70	70	72	71	67	66	68	69	68	70	72	73	75	73	70	59
250	71	71	72	73	70	67	66	66	67	67	71	73	74	76	73	70	57
315	72	74	73	75	72	71	71	71	68	67	71	73	73	76	74	69	56
400	72	74	73	72	70	70	71	70	69	69	72	72	71	73	75	65	58
500	72	74	73	72	71	71	71	70	67	69	72	72	71	69	72	65	59
630	73	75	74	73	71	71	70	69	67	68	72	73	72	70	68	65	59
800	74	80	79	78	75	75	74	70	69	70	72	73	72	68	68	67	58
1000	78	77	77	76	74	71	71	70	68	68	70	70	70	66	65	62	54
1250	93	92	93	94	90	82	77	83	72	77	76	75	82	77	71	71	65
1600	84	82	81	81	79	76	78	73	73	73	71	71	70	68	68	62	55
2000	80	80	79	79	78	77	75	73	72	71	72	72	69	69	62	53	43
2500	83	84	83	84	81	81	79	78	74	74	74	73	73	70	65	56	46
3150	84	84	84	82	81	82	81	78	75	76	76	73	72	70	69	65	56
4000	99	97	93	92	88	90	94	90	91	84	84	81	81	78	77	73	65
5000	92	90	89	92	90	89	89	85	83	81	83	80	79	76	75	71	62
6300	86	84	84	83	82	81	79	77	77	77	78	76	74	73	68	58	48
8000	84	82	82	80	80	79	77	76	75	74	76	74	70	70	65	55	45
10000	80	79	78	78	77	75	74	72	72	70	72	71	70	67	66	61	51
OVERALL	101	100	98	98	96	94	96	93	92	89	88	89	88	87	85	80	70

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PND8)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(AV-8A AIRCRAFT																
(ENG. F402-RR-401																
(GROUND RUNUP																
OPERATIONS:																
(IDLE, 27% RPM																
(SINGLE ENGINE																
METEOROLOGY:																
(TEMP = 59 F																
(BAR PRESS = 29.92 IN HG																
(REL HUMID = 70 %																
(DELTA N = 0.0 DB																
DISTANCE (FEET)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180													
(200	118.6	116.9	114.3	114.1	111.4	111.4	113.5	110.7	110.1	106.1	106.6	105.1	104.7	102.7	101.8	97.9
(250	116.2	114.5	112.0	111.8	109.0	109.0	111.1	108.3	107.7	103.7	104.2	102.7	102.3	100.3	99.4	95.5
(315	113.7	112.0	109.5	109.3	106.5	106.5	108.6	105.8	105.2	101.3	101.7	100.3	99.9	97.9	97.0	93.1
(400	111.1	109.4	106.9	106.7	103.8	104.0	106.1	103.2	102.6	98.7	99.1	97.7	97.3	95.3	94.4	90.5
(500	108.4	106.7	104.2	104.0	101.1	101.2	103.3	100.5	99.8	96.0	96.4	95.0	94.6	92.6	91.7	87.8
(630	105.4	103.8	101.3	101.1	98.1	98.3	100.4	97.6	96.9	93.1	93.5	92.1	91.7	89.8	88.9	85.0
(800	102.3	100.7	98.2	98.0	94.9	95.2	97.2	94.4	93.7	89.9	90.4	89.0	88.6	86.7	85.8	81.9
(1000	98.9	97.3	94.8	94.7	91.4	91.8	93.8	91.0	90.3	86.5	87.0	85.7	85.3	83.5	82.6	78.6
(1250	95.1	93.6	91.2	91.0	87.8	88.1	90.1	87.3	86.5	82.8	83.3	82.0	81.7	79.9	79.0	75.0
(1600	91.0	89.5	87.1	87.1	84.4	83.9	85.9	83.1	82.3	78.7	79.3	78.0	77.7	75.9	75.1	71.1
(2000	86.3	84.9	83.1	83.7	80.9	79.4	81.2	78.6	77.6	74.2	74.8	73.6	74.0	71.6	70.7	66.7
(2500	81.1	79.8	79.4	79.9	77.1	74.2	75.9	73.4	72.3	69.1	69.7	68.6	70.2	67.6	66.3	62.3
(3150	76.2	75.7	75.3	75.9	73.1	68.7	69.9	67.5	66.2	63.6	64.2	63.4	66.1	63.4	61.6	57.8
(4000	71.7	71.2	70.9	71.5	68.6	63.6	63.2	62.8	59.3	58.7	59.4	58.6	61.4	58.5	56.2	52.7
(5000	66.9	66.4	66.2	66.8	63.8	58.5	57.1	57.6	52.4	53.5	54.2	53.3	56.4	53.2	50.0	46.6
(6300	61.6	61.2	61.0	61.6	58.5	52.7	51.0	51.9	45.4	47.5	48.0	47.2	50.8	47.3	43.5	39.9
(8000	55.9	55.6	55.3	55.9	52.8	46.7	43.8	46.0	37.4	40.8	41.6	41.1	45.0	41.2	38.2	33.2
(10000	49.4	49.2	49.0	49.7	46.5	39.3	36.1	38.7	30.2	33.1	34.3	35.2	37.9	33.8	32.2	24.3
(12500	41.7	41.3	41.2	42.1	38.3	30.6	28.0	29.7	19.1	22.3	27.3	27.8	29.6	23.7	23.9	13.5
(16000	31.4	31.9	31.7	32.3	27.8	17.9	14.6	13.7	7.9	7.8	16.5	16.6	16.2	12.5	14.2	2.7
(20000	14.4	15.6	14.3	14.8	8.5	5.2	1.3				5.8	5.4	2.7	1.3	4.5	
(25000																

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(AV-8A AIRCRAFT																
(ENG. F402-RR-401																
(GROUND RUNUP																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	104.5	102.5	100.6	101.1	98.2	97.1	99.1	96.0	95.2	91.2	91.6	89.9	90.0	87.2	85.9	81.9
250	102.1	100.2	98.2	98.8	95.9	94.7	96.7	93.6	92.8	88.8	89.2	87.5	87.7	84.8	83.6	79.6
315	99.7	97.8	95.9	96.4	93.5	92.2	94.2	91.1	90.3	86.3	86.7	85.1	85.3	82.5	81.2	77.2
400	97.1	95.3	93.4	94.0	91.0	89.6	91.6	88.5	87.7	83.7	84.1	82.5	82.6	80.0	78.7	74.8
500	94.4	92.6	90.9	91.4	88.5	86.9	88.8	85.8	84.9	81.0	81.4	79.8	80.3	77.5	76.1	72.2
630	91.6	89.9	88.2	88.8	85.8	84.0	85.8	83.0	82.0	78.2	78.6	77.0	77.7	74.8	73.4	69.6
800	88.6	87.0	85.5	86.1	83.1	80.9	82.7	79.9	78.8	75.1	75.5	74.1	74.9	72.1	70.6	66.8
1000	85.5	83.9	82.6	83.2	80.2	77.7	79.2	76.7	75.3	71.9	72.3	71.0	72.1	69.3	67.7	64.0
1250	82.2	80.7	79.6	80.3	77.3	74.2	75.4	73.2	71.5	68.6	69.0	67.8	69.2	66.3	64.7	61.0
1600	78.7	77.4	76.6	77.3	74.2	70.5	71.3	69.5	67.4	65.1	65.5	64.6	66.3	63.3	61.7	58.0
2000	75.1	74.0	73.4	74.2	71.1	66.7	66.9	65.7	62.9	61.4	62.0	61.3	63.2	60.2	58.5	54.9
2500	71.4	70.5	70.1	70.9	67.9	62.8	62.3	61.8	58.2	57.7	58.4	57.9	60.0	56.9	55.1	51.7
3150	67.7	66.9	66.7	67.5	64.5	58.8	57.7	57.9	53.4	54.0	54.7	54.4	56.7	53.3	51.5	48.3
4000	63.9	63.2	63.1	63.9	60.8	54.8	53.1	53.9	48.7	50.0	50.8	50.7	53.1	49.6	47.5	44.6
5000	59.8	59.1	59.1	59.9	56.8	50.5	48.5	49.7	44.1	45.8	46.6	46.6	49.1	45.4	43.2	40.6
6300	55.3	54.6	54.6	55.5	52.4	45.9	43.7	45.2	39.3	41.3	42.2	42.1	44.6	40.9	38.6	36.2
8000	50.3	49.7	49.7	50.5	47.4	41.1	39.0	40.3	34.7	36.6	37.8	37.9	40.0	36.5	34.6	31.9
10000	44.6	44.1	44.0	44.8	41.7	35.8	33.9	34.9	29.7	31.5	33.0	33.3	34.8	31.6	30.3	27.2
12500	37.9	37.8	37.6	38.3	35.2	30.0	28.4	28.8	24.4	26.0	27.9	28.4	29.1	26.5	25.7	22.2
16000	30.3	30.7	30.3	30.8	27.8	23.8	22.5	22.2	18.8	20.1	22.5	23.0	23.0	21.1	20.9	16.9
20000	21.7	22.9	22.3	22.4	19.7	17.1	16.2	15.4	12.8	13.9	16.6	17.2	16.7	15.6	15.8	11.4
25000	12.7	14.8	14.0	13.7	11.4	10.1	9.6	8.5	6.6	7.5	10.3	10.9	10.2	10.0	10.4	5.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
(AV-8A AIRCRAFT															
(ENG. F402-RR-401															
(GROUND RUNUP															
OPERATION: (IDLE, 27% RPM															
(SINGLE ENGINE															
METEOROLOGY: (TEMP = 59 F															
(BAR PRESS = 29.92 IN HG															
(REL HUMID = 70 %															
(DELTA N = 0.0 DB															
DISTANCE (FEET)															
ANGLE (DEGREES)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
	150	160	170	180											
200	108.6	106.8	105.1	106.0	102.8	99.9	102.0	99.7	99.0	93.5	93.6	91.4	93.9	90.4	87.5
250	106.2	104.5	102.8	103.7	100.5	97.5	99.6	97.4	96.6	91.1	91.2	89.0	91.6	88.1	85.2
315	103.8	102.1	100.4	101.4	98.1	95.0	97.1	94.9	94.1	88.6	88.7	86.6	89.2	85.7	82.7
400	101.2	99.6	97.9	98.9	95.6	92.4	94.5	92.3	91.5	86.0	86.1	84.0	86.7	83.3	80.2
500	98.6	96.9	95.4	96.4	93.0	89.7	91.7	89.6	88.7	83.3	83.3	81.3	84.2	80.7	77.7
630	95.8	94.2	92.7	93.7	90.4	86.8	88.8	86.7	85.8	80.4	80.5	78.5	81.6	78.1	75.0
800	92.8	91.3	90.0	91.0	87.6	83.7	85.6	83.7	82.6	77.4	77.4	75.6	78.9	75.3	72.2
1000	89.6	88.2	87.1	88.2	84.8	80.5	82.1	80.4	79.1	74.2	74.3	72.5	76.1	72.5	69.3
1250	86.3	85.0	84.2	85.2	81.8	77.0	78.4	77.0	75.3	70.8	70.9	69.3	73.2	69.6	66.3
1500	82.8	81.7	81.1	82.2	78.8	73.3	74.3	73.3	71.2	67.3	67.4	66.1	70.2	66.5	63.2
2000	79.2	78.3	77.9	79.1	75.7	69.5	69.5	69.5	66.7	63.7	63.9	62.8	67.1	63.4	60.1
2500	75.5	74.8	74.7	75.9	72.5	65.6	65.2	65.6	62.0	60.0	60.3	59.4	64.0	60.1	56.7
3150	71.8	71.2	71.3	72.5	69.1	61.6	60.6	61.7	57.2	56.2	56.6	55.9	60.6	56.6	53.0
4000	67.2	66.6	66.7	67.8	64.5	57.0	55.4	57.0	51.8	51.9	52.4	51.9	56.2	52.2	48.8
5000	62.3	61.7	61.8	62.9	59.6	52.2	50.3	52.0	46.4	47.2	47.8	47.5	51.4	47.4	44.1
6300	57.0	56.4	56.4	57.4	54.2	47.0	44.9	46.7	40.8	42.2	42.9	42.7	46.2	42.2	39.2
8000	51.1	50.6	50.6	51.5	48.3	41.6	39.6	41.1	35.4	37.1	38.2	38.2	40.8	37.1	34.9
10000	44.6	44.1	44.0	44.8	41.7	35.8	33.9	34.9	29.7	31.5	33.0	33.3	34.8	31.6	30.3
12500	37.9	37.8	37.6	38.3	35.2	30.0	28.4	28.8	24.4	26.0	27.9	28.4	29.1	26.5	25.7
15000	30.3	30.7	30.3	30.8	27.8	23.8	22.5	22.2	18.8	20.1	22.5	23.0	23.0	21.1	20.9
20000	21.7	22.9	22.3	22.4	19.7	17.1	16.2	15.4	12.8	13.9	16.6	17.2	16.7	15.6	15.8
25000	12.7	14.8	14.0	13.7	11.4	10.1	9.6	8.5	6.6	7.5	10.3	10.9	10.2	10.0	10.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: AV-8A AIRCRAFT
ENG. F402-RR-401
GROUND RUNUP

OPERATION: IDLE, 27% RPM
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 8.2
TEST 74-004-005
RUN 01
AIRCRAFT CODE 134
OPERATION CODE 01013
PROFILE VERSION A
06 NOV 75
PAGE J1

	P=PNLT										A=AL										T=ALT												
	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
AV-8A AIRCRAFT																
ENG. F402-RR-401																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 55% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-005																
RUN 02																
AIRCRAFT CODE 134																
OPERATION CODE 01024																
PROFILE VERSION A																
06 NOV 75																
PAGE C2																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
78	79	79	75	79	80	82	82	81	81	82	83	84	85	86	86	82
81	81	81	77	82	82	82	82	82	82	84	85	86	87	88	86	80
82	82	82	77	83	81	81	81	81	83	84	85	86	87	88	89	77
83	83	83	79	83	84	86	86	86	87	86	86	88	88	90	87	74
85	85	86	81	86	86	85	83	82	83	88	88	89	90	90	86	64
86	87	87	83	88	87	85	84	83	83	85	87	89	89	88	84	54
86	86	87	82	86	85	83	83	83	84	85	86	89	88	86	82	64
87	87	87	84	85	82	82	82	83	84	88	88	90	89	84	81	50
85	85	85	81	84	84	84	85	83	84	87	88	90	91	84	80	50
86	87	87	82	85	85	85	85	85	85	89	89	88	89	86	81	51
86	88	87	82	86	85	85	84	84	86	88	87	88	89	87	82	51
86	88	87	82	87	86	85	83	84	85	88	88	87	86	87	81	52
88	88	87	83	86	85	86	85	85	86	89	87	86	86	85	81	51
88	88	87	81	86	86	86	85	85	87	88	86	83	82	81	81	59
89	89	87	81	89	86	86	85	85	87	88	86	81	81	81	80	49
99	96	91	86	100	90	95	89	93	90	87	88	85	81	84	82	50
92	91	89	83	90	88	86	86	84	86	85	84	82	79	78	76	47
98	100	94	90	95	93	94	91	89	91	89	87	85	82	81	81	60
97	97	94	90	92	91	91	90	90	90	89	86	86	83	82	79	51
96	94	94	91	94	94	93	93	88	91	89	88	84	82	81	77	49
94	95	93	89	93	93	92	92	90	91	89	88	87	84	82	78	49
91	92	91	84	90	90	90	89	87	89	88	87	85	83	81	76	56
89	89	88	83	88	88	87	88	85	87	86	84	81	79	77	73	43
85	86	85	79	84	84	83	83	81	83	83	80	78	75	74	69	48
105	105	103	99	105	102	102	101	100	101	101	101	100	100	99	96	85
105	105	103	99	105	102	102	101	100	101	101	101	100	100	99	96	75
OVERALL	105	105	103	99	105	102	102	101	100	101	101	100	100	99	96	75
65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(AV-8A AIRCRAFT																
(ENG. F402-RR-401																
(GROUND RUNUP																
OPERATION: (ENGINE RUNUP, 55% RPM																
(SINGLE ENGINE																
METEOROLOGY: (TEMP = 59 F																
(BAR PRESS = 29.92 IN HG																
(REL HUMID = 70 %																
(DELTA N = 0.0 DB																
DISTANCE (FEET)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	124.0	124.4	120.7	116.6	123.7	119.7	121.2	118.6	118.5	117.8	116.6	115.2	115.0	112.1	112.4	109.3
250	121.7	122.1	118.3	114.3	121.5	117.4	118.9	116.2	116.2	115.5	114.3	112.9	112.7	109.9	110.2	107.1
315	119.4	119.8	115.9	111.8	119.2	114.9	116.5	113.8	113.8	113.0	111.8	110.5	110.4	107.6	107.9	104.8
400	117.0	117.4	113.5	109.3	116.9	112.4	113.9	111.2	111.4	110.5	109.3	108.0	108.0	105.2	105.5	102.4
500	114.4	114.8	110.9	106.6	114.4	109.7	111.4	108.6	108.8	107.9	106.7	105.4	105.5	102.7	103.0	100.0
630	111.8	112.2	108.2	103.8	111.9	106.9	108.7	105.7	106.1	105.2	104.0	102.7	102.8	100.0	100.3	97.3
800	109.0	109.4	105.3	100.9	109.2	103.8	105.9	102.7	103.2	102.3	101.1	99.9	100.0	97.2	97.5	94.6
1000	106.0	106.5	102.2	97.9	106.4	100.8	102.9	99.4	100.3	99.3	98.0	96.9	96.9	94.2	94.5	91.7
1250	102.8	103.3	99.0	94.7	103.4	97.6	99.7	96.1	97.2	96.1	94.8	93.8	93.6	90.9	91.2	88.5
1600	99.4	99.3	95.5	91.2	100.2	94.1	96.3	92.6	94.0	92.7	91.4	90.3	90.1	87.7	87.9	85.1
2000	95.8	96.1	91.7	87.4	96.7	90.3	92.5	88.8	90.5	88.9	87.6	86.6	86.3	84.4	84.5	81.6
2500	92.0	92.0	87.5	83.3	93.0	86.1	88.7	84.6	86.7	84.8	83.6	82.8	82.3	80.7	80.9	77.8
3150	87.9	87.4	82.9	78.6	88.9	81.5	84.6	79.9	82.6	80.2	79.0	78.6	78.1	76.5	76.9	73.6
4000	82.8	81.7	77.5	73.1	83.7	76.0	79.4	74.6	77.4	75.3	74.0	73.9	73.3	71.9	72.1	68.6
5000	77.2	75.5	71.7	66.9	78.0	70.5	73.7	69.1	71.8	70.0	69.2	68.9	68.1	66.9	66.9	63.3
6300	71.2	69.5	65.9	60.7	71.8	64.6	67.6	63.3	65.8	64.2	64.0	63.3	62.5	61.7	61.4	57.3
8000	64.8	63.3	60.0	54.6	65.3	58.7	61.2	57.3	59.6	58.4	59.3	58.5	58.0	57.6	56.7	52.4
10000	57.8	56.4	53.9	48.6	58.0	52.5	54.2	50.8	52.5	52.5	54.2	53.6	53.0	53.0	51.7	46.9
12500	50.2	49.7	48.2	41.6	50.4	46.3	46.2	44.2	44.9	46.7	48.8	48.2	47.9	48.1	46.4	40.4
16000	41.4	42.8	41.5	34.8	41.1	38.7	38.9	37.1	38.1	40.0	42.3	42.0	41.8	42.3	40.2	33.7
20000	33.9	35.0	34.0	25.7	32.5	31.0	31.1	29.5	30.1	32.4	35.0	34.5	34.7	35.2	32.4	25.5
25000	22.7	26.2	24.6	13.0	21.3	19.8	20.0	17.5	18.7	22.6	26.5	25.7	25.7	26.6	23.3	11.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(AV-8A AIRCRAFT																			
(ENG. F402-RR-401																			
(GROUND RUNUP																			
(OPERATION:																			
(ENGINE RUNUP, 55% RPM																			
(SINGLE ENGINE																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
(AIRCRAFT CODE 134																			
(OPERATION CODE 01024																			
(PROFILE VERSION A																			
(06 NOV 75																			
(PAGE F2																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-005																			
) RUN 02																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.1	108.0	105.3	100.7	107.1	104.1	104.5	102.9	101.9	102.7	102.2	100.9	99.0	97.4	96.4	93.4	73.5	63.5	53.5
250	105.8	105.7	103.0	98.4	104.9	101.7	102.2	100.5	99.7	100.4	100.0	98.6	96.8	95.2	94.2	91.3	71.3	61.3	51.3
315	103.5	103.4	100.6	96.1	102.6	99.3	99.8	98.1	97.3	98.0	97.6	96.3	94.5	93.0	91.9	89.0	69.1	59.1	49.1
400	101.1	101.0	98.1	93.6	100.2	96.9	97.4	95.6	94.9	95.5	95.2	93.9	92.2	90.7	89.7	86.8	66.8	56.8	46.8
500	98.7	98.5	95.6	91.0	97.8	94.3	94.9	93.0	92.5	93.0	92.7	91.5	89.8	88.4	87.3	84.5	64.5	54.5	44.5
630	96.1	95.9	92.9	88.4	95.3	91.6	92.3	90.3	89.9	90.4	90.2	89.0	87.3	86.0	85.0	82.1	62.1	52.1	42.1
800	93.4	93.2	90.1	85.6	92.8	88.8	89.6	87.5	87.3	87.7	87.5	86.5	84.7	83.6	82.5	79.6	59.6	49.6	39.6
1000	90.7	90.4	87.2	82.6	90.1	85.9	86.8	84.5	84.6	84.9	84.8	83.8	82.1	81.1	80.0	77.1	57.1	47.1	37.1
1250	87.7	87.4	84.2	79.5	87.2	82.8	83.8	81.4	81.7	82.0	82.0	81.1	79.4	78.5	77.5	74.5	54.4	44.4	34.4
1600	84.6	84.2	81.0	76.3	84.3	79.6	80.7	78.2	78.7	78.9	79.2	78.3	76.6	75.8	74.8	71.8	51.6	41.6	31.6
2000	81.4	80.8	77.7	72.9	81.1	76.3	77.5	74.9	75.6	75.8	76.2	75.4	73.7	73.1	72.1	69.0	48.7	38.7	28.7
2500	77.9	77.2	74.1	69.3	77.8	72.8	74.1	71.4	72.3	72.5	73.1	72.3	70.6	70.0	69.2	65.9	45.6	35.6	25.6
3150	74.1	73.4	70.4	65.5	74.2	69.1	70.4	67.7	68.7	69.0	69.7	68.9	67.2	66.6	65.9	62.6	42.3	32.3	22.3
4000	70.1	69.2	66.4	61.4	70.2	65.2	66.4	63.8	64.9	65.2	66.1	65.2	63.5	62.9	62.3	59.0	38.6	28.6	18.6
5000	65.6	64.6	62.0	57.0	65.7	60.8	62.0	59.5	60.6	61.0	62.0	61.1	59.3	58.8	58.2	54.9	34.5	24.5	14.5
6300	60.7	59.6	57.3	52.3	60.8	56.2	57.2	54.8	55.9	56.5	57.6	56.7	54.9	54.4	53.8	50.5	30.1	20.1	10.1
8000	55.5	54.7	52.8	47.8	55.5	51.6	52.4	50.3	51.1	52.0	53.4	52.5	51.0	50.6	50.0	46.3	26.1	16.1	6.1
10000	49.9	49.6	48.0	43.1	49.7	46.8	47.2	45.4	46.0	47.2	48.9	48.0	46.8	46.5	45.8	41.9	21.8	11.8	1.8
12500	44.0	44.3	42.9	38.1	43.5	41.6	41.7	40.2	40.6	42.1	44.0	43.1	42.3	42.1	41.3	37.1	17.3	7.3	
16000	37.8	38.7	37.5	32.7	37.3	36.0	36.0	34.6	35.0	36.5	38.6	37.9	37.4	37.3	36.3	31.9	12.6	2.6	
20000	31.5	32.7	31.7	26.8	30.9	30.1	29.9	28.7	29.0	30.6	32.7	32.2	31.9	32.0	30.9	26.3	7.9		
25000	24.9	26.2	25.4	20.5	24.4	23.6	23.5	22.3	22.7	24.1	26.3	26.0	26.1	26.3	24.9	20.3	3.5		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
AV-8A AIRCRAFT																
ENG. F402-RR-401																
GROUND RUNUP																
OPERATION:																
ENGINE RUNUP, 55% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-005																
RUN 02																
AIRCRAFT CODE 134																
OPERATION CODE 01024																
PROFILE VERSION A																
06 NOV 75																
PAGE 62																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	110.8	110.2	106.5	102.2	110.9	105.2	107.5	104.0	104.7	103.7	102.2	100.9	100.2	97.4	97.8	94.7
250	108.5	107.9	104.2	99.9	108.6	102.9	105.2	101.7	102.4	101.4	100.0	98.6	97.9	95.2	95.6	92.5
315	106.2	105.6	101.8	97.5	106.4	100.5	102.8	99.3	100.1	99.0	97.6	96.3	95.6	93.0	93.4	90.3
400	103.8	103.2	99.3	95.0	104.0	98.0	100.4	96.8	97.7	96.6	95.2	93.9	93.3	90.7	91.1	88.1
500	101.4	100.7	96.8	92.5	101.6	95.5	97.9	94.2	95.2	94.1	92.7	91.5	90.9	88.4	88.8	85.7
630	98.8	98.1	94.1	89.8	99.1	92.8	95.3	91.4	92.7	91.5	90.2	89.0	88.4	86.0	86.4	83.4
800	96.1	95.4	91.3	87.0	96.5	90.0	92.6	88.6	90.0	88.7	87.5	86.5	85.9	83.6	84.0	80.9
1000	93.4	92.5	88.4	84.1	93.8	87.0	89.7	85.7	87.3	85.9	84.8	83.8	83.3	81.1	81.5	78.4
1250	90.4	89.5	85.4	81.0	91.0	84.0	86.8	82.6	84.4	83.0	82.0	81.1	80.5	78.5	78.9	75.8
1600	87.3	86.4	82.2	77.7	88.0	80.8	83.7	79.4	81.5	80.0	79.2	78.3	77.7	75.8	76.3	73.1
2000	84.1	83.0	78.8	74.3	84.9	77.5	80.5	76.1	78.3	76.8	76.2	75.4	74.9	73.1	73.6	70.2
2500	80.6	79.4	75.3	70.7	81.6	74.0	77.0	72.6	75.0	73.5	73.1	72.3	71.7	70.0	70.6	67.2
3150	76.8	75.5	71.6	66.9	77.9	70.3	73.4	68.9	71.5	70.0	69.7	68.9	68.4	66.6	67.4	63.9
4000	72.2	70.9	67.3	62.6	73.2	66.1	68.8	64.7	67.0	66.0	66.1	65.2	64.4	62.9	63.5	60.0
5000	67.2	65.9	62.7	57.9	68.0	61.5	63.8	60.2	62.2	61.6	62.0	61.1	60.0	58.8	59.1	55.7
6300	61.8	60.5	57.8	52.9	62.3	56.6	58.4	55.3	57.0	56.9	57.6	56.7	55.3	54.4	54.4	51.0
8000	56.0	55.2	53.0	48.1	56.2	51.8	53.0	50.5	51.6	52.2	53.4	52.5	51.2	50.6	50.2	46.6
10000	49.9	49.6	48.0	43.1	49.7	46.8	47.2	45.4	46.0	47.2	48.9	48.0	46.8	46.5	45.8	41.9
12500	44.0	44.3	42.9	38.1	43.5	41.6	41.7	40.2	40.6	42.1	44.0	43.1	42.3	42.1	41.3	37.1
16000	37.8	38.7	37.5	32.7	37.3	36.0	36.0	34.6	35.0	36.5	38.6	37.9	37.4	37.3	36.3	31.9
20000	31.5	32.7	31.7	26.8	30.9	30.1	29.9	28.7	29.0	30.6	32.7	32.2	31.9	32.0	30.9	26.3
25000	24.9	26.2	25.4	20.5	24.4	23.6	23.5	22.3	22.7	24.1	26.3	26.0	26.1	26.3	24.9	20.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
 OMEGA 8.2
 TEST 74-004-005
 RUN 02

NOISE SOURCE/SUBJECT:
 AV-8A AIRCRAFT
 ENG. F402-RR-401
 GROUND RUNUP

OPERATIONS:
 ENGINE RUNUP, 55% RPM
 SINGLE ENGINE

METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = 0.0 DB

AIRCRAFT CODE 134
 OPERATION CODE 01024
 PROFILE VERSION A
 06 NOV 75
 PAGE J2

DISTANCE = 250 FEET

	P=PNLT										A=AL										T=ALT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130	30	40	50	60	70	80	90	100	110	120	130																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
AV-8A AIRCRAFT																
ENG. F402-RR-401																
GROUND RUNUP																
OPERATION:																
HOVER, 50 FOOT, 98% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 CB																
AIRCRAFT CODE 134																
OPERATION CODE 01026																
PROFILE VERSION A																
06 NOV 75																
PAGE C3																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
50	92	91	94	91	90	90	91	90	89	88	87	89	89	90	90	89
63	94	94	95	95	94	91	93	93	93	90	91	92	92	93	91	91
80	95	96	97	96	97	93	95	94	94	95	94	94	95	96	94	95
100	97	101	100	100	101	97	100	100	98	99	98	98	98	99	98	97
125	99	102	103	102	103	102	101	101	102	101	100	100	100	102	100	100
160	103	105	104	106	106	102	102	103	104	104	101	103	105	104	100	101
200	103	105	106	105	107	107	105	105	104	106	103	105	102	104	103	101
250	104	106	108	107	107	104	106	105	101	107	104	107	105	104	104	103
315	104	107	109	107	106	105	107	104	102	108	105	107	106	104	106	104
400	103	105	109	107	106	104	108	104	103	108	106	107	107	105	107	104
500	102	104	108	106	106	104	108	103	104	108	106	105	107	107	106	103
630	101	104	108	109	106	107	104	108	106	107	105	104	107	108	106	103
800	102	105	109	110	107	108	108	104	107	107	105	104	106	107	104	103
1000	102	105	109	109	106	109	108	105	106	107	105	104	106	107	103	103
1250	103	106	109	108	106	109	103	109	105	108	105	104	106	106	103	104
1600	104	107	109	108	107	109	102	110	105	106	104	103	106	106	103	103
2000	103	105	108	107	106	108	101	108	105	106	104	104	106	106	103	103
2500	103	106	108	106	105	107	101	107	104	105	105	103	105	104	103	101
3150	101	104	106	104	103	105	99	105	103	103	102	102	104	103	102	100
4000	102	105	107	106	104	106	100	105	104	103	103	103	104	103	103	102
5000	102	105	107	105	104	105	100	103	102	103	101	102	103	103	102	101
6300	99	102	104	102	101	103	97	103	100	100	98	99	100	100	99	98
8000	98	100	102	101	100	101	95	98	97	97	96	97	98	98	97	95
10000	95	97	99	98	97	98	93	98	95	94	92	94	94	94	93	91
OVERALL	115	118	120	120	118	120	115	120	117	117	119	117	117	118	116	115
																105
																95

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			OMEGA 8-2	
NOISE SOURCE/SUBJECT#																			TEST 74-004-005	
AV-8A AIRCRAFT																			RUN 03	
ENG. F402-RR-401																			AIRCRAFT CODE 134	
GROUND RUNUP																			OPERATION CODE 01025	
																			PROFILE VERSION A	
																			06 NOV 75	
																			PAGE 03	
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	129.0	132.4	134.8	133.9	132.5	133.8	128.6	133.7	131.3	131.2	132.1	130.5	130.8	132.0	131.6	130.4	129.3	119.2	109.2	
250	127.5	130.1	132.6	131.6	130.2	131.5	126.3	131.5	129.0	129.0	129.9	128.2	128.5	129.7	129.3	128.1	127.0	116.9	106.9	
315	125.2	127.8	130.3	129.2	127.8	129.2	124.0	129.2	126.7	126.7	127.6	125.8	126.2	127.4	127.0	125.7	124.6	114.6	104.5	
400	122.8	125.4	127.9	126.8	125.4	126.8	121.7	126.9	124.2	124.3	125.3	123.4	123.7	124.9	124.6	123.3	122.2	112.1	102.1	
500	120.3	122.9	125.4	124.3	123.0	124.4	119.2	124.4	121.6	121.6	121.9	122.8	120.9	121.2	122.5	122.1	120.7	119.6	109.6	
630	117.7	120.4	122.9	121.7	120.4	121.8	116.6	121.8	119.0	119.3	120.3	118.3	118.6	119.9	119.6	118.1	116.9	106.8	96.7	
800	115.0	117.6	120.1	119.0	117.7	119.1	113.9	119.1	116.3	116.6	117.6	115.6	115.8	117.2	116.9	115.4	114.2	104.2	94.0	
1000	112.1	114.7	117.3	116.1	114.8	116.2	111.1	116.3	113.4	113.8	114.8	112.8	113.0	114.4	114.1	112.5	111.4	101.3	91.2	
1250	109.0	111.6	114.2	113.0	111.7	113.1	108.0	113.2	110.3	110.7	111.8	109.8	109.9	111.4	111.1	109.5	108.4	98.3	88.1	
1600	105.6	108.3	110.9	109.8	108.4	109.8	104.7	110.1	107.1	107.4	108.7	106.6	106.6	108.2	107.9	106.2	105.2	95.1	84.9	
2000	102.0	104.7	107.3	106.4	104.9	106.4	101.1	106.7	103.6	103.8	105.3	103.1	103.1	104.8	104.5	102.7	101.7	91.6	81.4	
2500	98.1	100.8	103.4	102.7	101.2	102.7	97.3	103.1	99.8	100.0	101.5	99.3	99.3	101.0	100.7	99.0	97.9	87.7	77.5	
3150	93.9	96.7	99.3	98.7	97.1	98.7	93.6	99.1	95.6	96.0	97.3	95.2	95.0	96.8	96.7	95.0	93.7	83.5	73.3	
4000	89.4	92.2	94.8	94.3	92.6	94.2	89.3	94.6	91.1	91.6	92.8	90.9	90.3	92.3	92.4	90.6	89.2	79.0	68.7	
5000	84.4	87.3	89.9	89.8	87.7	89.4	84.6	89.8	86.1	86.9	88.1	86.2	85.5	87.5	87.7	85.9	84.3	74.0	63.7	
6300	79.1	81.9	84.8	84.9	82.7	84.1	79.7	84.5	80.8	82.0	83.1	81.1	80.4	82.5	82.7	80.8	79.2	68.9	58.5	
8000	74.3	77.0	80.3	80.5	78.3	79.4	75.3	79.7	76.1	77.5	78.9	76.9	76.1	78.2	78.5	76.6	74.8	64.4	53.9	
16000	69.5	72.2	75.4	75.7	73.5	74.5	70.7	74.9	71.3	72.7	74.5	72.4	71.7	73.6	73.9	72.2	70.2	59.8	48.7	
12500	64.6	67.1	70.5	70.7	68.5	69.2	65.8	69.8	66.0	67.3	69.7	67.7	66.9	68.6	68.9	67.5	65.3	54.7	42.8	
16000	59.3	61.8	65.3	65.2	63.4	63.8	60.6	64.6	60.7	61.6	64.6	62.5	61.7	63.2	63.4	62.4	60.1	49.2	36.0	
20000	53.4	56.0	59.6	59.2	57.5	58.0	54.8	58.7	54.8	55.3	58.8	56.8	56.0	57.3	57.5	56.6	54.2	42.4	28.4	
25000	46.8	49.4	53.1	52.7	51.2	51.4	48.4	52.2	48.2	48.7	52.5	50.4	49.7	50.8	51.1	50.3	47.7	34.4	17.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
AV-8A AIRCRAFT																
ENG. F402-RR-401																
GROUND RUNUP																
IDENTIFICATIONS:																
OMEGA 8.2																
TEST 74-004-005																
RUN 03																
AIRCRAFT CODE 134																
OPERATION CODE 01026																
PROFILE VERSION A																
06 NOV 75																
PAGE E3																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	129.8	132.4	134.8	133.9	132.5	133.8	128.6	133.7	131.3	131.2	132.1	130.5	130.8	132.0	131.6	130.4
250	127.5	130.1	132.6	131.6	130.2	131.5	126.3	131.5	129.0	129.0	129.9	128.2	128.5	129.7	129.3	128.1
315	125.2	127.8	130.3	129.2	127.8	129.2	124.0	129.2	126.7	126.7	127.6	125.8	126.2	127.4	127.0	125.7
400	122.8	125.4	127.9	126.8	125.4	126.8	121.7	126.9	124.2	124.3	125.3	123.4	123.7	124.9	124.6	123.3
500	120.3	122.9	125.4	124.3	123.0	124.4	119.2	124.4	121.6	121.6	122.8	120.9	121.2	122.5	122.1	120.7
630	117.7	120.4	122.9	121.7	120.4	121.8	116.6	121.8	119.0	119.0	120.3	118.3	118.6	119.9	119.6	118.1
800	115.0	117.6	120.1	119.0	117.7	119.1	113.9	119.1	116.3	116.6	117.6	115.6	115.8	117.2	116.9	115.4
1000	112.1	114.7	117.3	116.1	114.8	116.2	111.1	116.3	113.4	113.8	114.8	112.8	113.0	114.4	114.1	112.5
1250	109.0	111.6	114.2	113.0	111.7	113.1	108.0	113.2	110.3	110.7	111.8	109.8	109.9	111.4	111.1	109.5
1600	105.6	108.3	110.9	109.8	108.4	109.8	104.7	110.1	107.1	107.4	108.7	106.6	106.6	108.2	107.9	106.2
2000	102.0	104.7	107.3	106.4	104.9	106.4	101.1	106.7	103.6	103.8	105.3	103.1	103.1	104.8	104.5	102.7
2500	98.1	100.8	103.4	102.7	101.2	102.7	97.3	103.1	99.8	100.0	101.5	99.3	99.3	101.0	100.7	99.0
3150	93.9	96.7	99.3	98.7	97.1	98.7	93.6	99.1	95.6	96.0	97.3	95.2	95.0	96.8	96.7	95.0
4000	89.4	92.2	94.8	94.3	92.6	94.2	89.3	94.6	91.1	91.6	92.8	90.9	90.3	92.3	92.4	90.6
5000	84.4	87.3	89.9	89.8	87.7	89.4	84.6	89.8	86.1	86.9	88.1	86.2	85.5	87.5	87.7	85.9
6300	79.1	81.9	84.8	84.9	82.7	84.1	79.7	84.5	80.8	82.0	83.1	81.1	80.4	82.5	82.7	80.8
8000	74.3	77.0	80.3	80.5	78.3	79.4	75.3	79.7	76.1	77.5	78.9	76.9	76.1	78.2	78.5	76.6
10000	69.5	72.2	75.4	75.7	73.5	74.5	70.7	74.9	71.3	72.7	74.5	72.4	71.7	73.6	73.9	72.2
12500	64.6	67.1	70.5	70.7	68.5	69.2	65.8	69.8	66.0	67.3	69.7	67.7	66.9	68.6	68.9	67.5
16000	59.3	61.8	65.3	65.2	63.4	63.8	60.6	64.6	60.7	61.6	64.6	62.5	61.7	63.2	63.4	62.4
20000	53.4	56.0	59.6	59.2	57.5	58.0	54.8	58.7	54.8	55.3	58.8	56.8	56.0	57.3	57.5	56.6
25000	46.8	49.4	53.1	52.7	51.2	51.4	48.4	52.2	48.2	48.7	52.5	50.4	49.7	50.8	51.1	50.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
AV-8A AIRCRAFT																			
ENG. F402-RR-401																			
GROUND RUNUP																			
(OPERATION:																			
(HOVER, 50 FOOT, 98% RPM																			
(SINGLE ENGINE																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = 0.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 134																			
OPERATION CODE 01026																			
PROFILE VERSION A																			
06 NOV 75																			
PAGE F3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-005																			
RUN 03																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	116.0	118.7	121.5	120.7	119.0	120.6	115.4	120.8	117.6	118.0	119.3	117.2	117.0	118.9	118.7	116.8	115.7	105.7	95.7
250	113.7	116.5	119.3	118.5	116.8	118.4	113.2	118.6	115.4	115.8	117.1	115.1	114.9	116.7	116.6	114.6	113.5	103.5	93.5
315	111.5	114.2	117.0	116.3	114.5	116.2	111.0	116.4	113.2	113.6	114.9	112.9	112.6	114.5	114.3	112.4	111.3	101.3	91.3
400	109.2	111.9	114.7	114.0	112.3	113.9	108.8	114.2	110.9	111.3	112.7	110.6	110.3	112.2	112.1	110.1	109.0	99.0	89.0
500	106.8	109.5	112.4	111.7	109.9	111.6	106.5	111.8	108.5	109.0	110.4	108.3	108.0	109.9	109.8	107.8	106.7	96.7	86.7
630	104.3	107.1	110.0	109.3	107.5	109.2	104.1	109.5	106.1	106.7	108.0	106.0	105.6	107.5	107.4	105.4	104.3	94.3	84.3
800	101.8	104.6	107.5	106.9	105.1	106.7	101.7	107.0	103.6	104.2	105.6	103.5	103.2	105.1	105.0	103.0	101.9	91.9	81.9
1000	99.2	102.0	104.9	104.4	102.6	104.2	99.3	104.5	101.0	101.7	103.2	101.1	100.6	102.5	102.5	100.5	99.3	89.3	79.3
1250	96.5	99.3	102.3	101.8	99.9	101.6	96.7	101.9	98.3	99.1	100.6	98.5	98.0	99.9	100.0	97.9	96.7	86.7	76.7
1600	93.7	96.4	99.2	98.7	97.2	98.8	94.0	99.2	95.5	96.4	97.9	95.8	95.2	97.2	97.3	95.2	94.0	84.0	74.0
2000	90.8	93.5	96.7	96.4	94.4	96.0	91.3	96.3	92.6	93.5	95.2	93.1	92.4	94.4	94.6	92.5	91.2	81.2	71.2
2500	87.6	90.4	93.6	93.4	91.3	92.9	88.3	93.3	89.5	90.5	92.2	90.1	89.3	91.4	91.6	89.4	88.1	78.1	68.1
3150	84.2	87.0	90.2	90.2	88.0	89.6	85.1	90.0	86.1	87.3	88.9	86.8	85.9	88.1	88.4	86.1	84.8	74.8	64.8
4000	80.5	83.3	86.6	86.7	84.4	86.0	81.5	86.4	82.5	83.7	85.3	83.2	82.2	84.5	84.9	82.5	81.2	71.2	61.2
5000	76.4	79.2	82.5	82.7	80.3	82.0	77.5	82.3	78.4	79.7	81.2	79.1	78.1	80.4	80.9	78.4	77.1	67.1	57.1
6300	72.0	74.8	78.1	78.3	75.9	77.6	73.2	77.9	74.0	75.4	76.8	74.8	73.6	76.0	76.5	73.9	72.7	62.7	52.7
8000	67.7	70.5	73.8	74.2	71.7	73.3	69.1	73.6	69.6	71.1	72.6	70.7	69.5	71.8	72.4	70.0	68.5	58.5	48.5
10000	63.0	65.8	69.3	69.6	67.1	68.5	64.7	68.9	64.9	66.5	68.1	66.3	65.0	67.3	67.9	65.6	64.0	54.0	44.0
12500	58.0	60.7	64.3	64.7	62.2	63.4	59.8	63.9	59.8	61.4	63.3	61.4	60.3	62.4	62.9	61.0	59.1	49.1	39.1
16000	52.7	55.2	58.9	59.3	56.8	57.7	54.6	58.4	54.3	55.9	58.0	56.2	55.1	57.1	57.5	55.9	53.8	43.8	33.8
20000	46.9	49.4	53.0	53.3	51.0	51.6	48.8	52.4	48.4	49.7	52.2	50.4	49.5	51.2	51.6	50.3	48.0	38.0	28.0
25000	40.6	43.0	46.6	46.7	44.6	45.0	42.4	45.9	42.0	43.0	45.9	44.1	43.4	44.8	45.0	44.1	41.7	31.7	21.7
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(AV-8A AIRCRAFT)																				
(ENG. F402-RR-401)																				
(GROUND RUNUP)																				
(OPERATION:)																				
(HOVER, 50 FOOT, 98% RPM)																				
(SINGLE ENGINE)																				
(METEOROLOGY:)																				
(TEMP = 59 F)																				
(BAR PRESS = 29.92 IN HG)																				
(REL HUMID = 70 %)																				
(DELTA N = 0.0 DB)																				
IDENTIFICATIONS:																				
(OMEGA 8.2)																				
(TEST 74-004-005)																				
(RUN 03)																				
(AIRCRAFT CODE 134)																				
(OPERATION CODE 01026)																				
(PROFILE VERSION A)																				
(06 NOV 75)																				
(PAGE 63)																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	116.0	118.7	121.5	120.7	119.0	120.6	115.4	120.8	117.6	118.0	119.3	117.2	117.0	118.9	118.7	116.8	115.7	105.7	95.7	
250	113.7	116.5	119.3	118.5	116.8	118.4	113.2	118.6	115.4	115.8	117.1	115.1	114.9	116.7	116.6	114.6	113.5	103.5	93.5	
315	111.5	114.2	117.0	116.3	114.5	116.2	111.0	116.4	113.2	113.6	114.9	112.9	112.6	114.5	114.3	112.4	111.3	101.3	91.3	
400	109.2	111.9	114.7	114.0	112.3	113.9	108.8	114.2	110.9	111.3	112.7	110.6	110.3	112.2	112.1	110.1	109.0	99.0	89.0	
500	106.8	109.5	112.4	111.7	109.9	111.6	106.5	111.8	108.5	109.0	110.4	108.3	108.0	109.9	109.8	107.8	106.7	96.7	86.7	
630	104.3	107.1	110.0	109.3	107.5	109.2	104.1	109.5	106.1	106.7	108.0	106.0	105.6	107.5	107.4	105.4	104.3	94.3	84.3	
800	101.8	104.6	107.5	106.9	105.1	106.7	101.7	107.0	103.6	104.2	105.6	103.5	103.2	105.1	105.0	103.0	101.9	91.9	81.9	
1000	99.2	102.0	104.9	104.4	102.6	104.2	99.3	104.5	101.0	101.7	103.2	101.1	100.6	102.6	102.5	100.5	99.3	89.3	79.3	
1250	96.5	99.3	102.3	101.8	99.9	101.6	96.7	101.9	98.3	99.1	100.6	98.5	98.0	99.9	100.0	97.9	96.7	86.7	76.7	
1600	93.7	96.4	99.5	99.2	97.2	98.8	94.0	99.2	95.5	96.4	97.9	95.8	95.2	97.2	97.3	95.2	94.0	84.0	74.0	
2000	90.8	93.5	96.7	96.4	94.4	96.0	91.3	96.3	92.6	93.5	95.2	93.1	92.4	94.4	94.6	92.5	91.2	81.2	71.2	
2500	87.6	90.4	93.6	93.4	91.3	92.9	88.3	93.3	89.5	90.5	92.2	90.1	89.3	91.4	91.6	89.4	88.1	78.1	68.1	
3150	84.2	87.0	90.2	90.2	88.0	89.6	85.1	90.0	86.1	87.3	88.9	86.8	85.9	88.1	88.4	86.1	84.8	74.8	64.8	
4000	80.5	83.3	86.6	86.7	84.4	86.0	81.5	86.4	82.5	83.7	85.3	83.2	82.2	84.5	84.9	82.5	81.2	71.2	61.2	
5000	76.4	79.2	82.5	82.7	80.3	82.0	77.5	82.3	78.4	79.7	81.2	79.1	78.1	80.4	80.9	78.4	77.1	67.1	57.1	
6300	72.0	74.8	78.1	78.3	75.9	77.6	73.2	77.9	74.0	75.4	76.8	74.8	73.6	76.0	76.5	73.9	72.7	62.7	52.7	
8000	67.7	70.5	73.8	74.2	71.7	73.3	69.1	73.6	69.6	71.1	72.6	70.7	69.5	71.8	72.4	70.0	68.5	58.5	48.5	
10000	63.0	65.8	69.3	69.6	67.1	68.5	64.7	68.9	64.9	66.5	68.1	66.3	65.0	67.3	67.9	65.6	64.0	54.0	44.0	
12500	58.0	60.7	64.3	64.7	62.2	63.4	59.8	63.9	59.8	61.4	63.3	61.4	60.3	62.4	62.9	61.0	59.1	49.1	39.1	
16000	52.7	55.2	58.9	59.3	56.8	57.7	54.6	58.4	54.3	55.9	58.0	56.2	55.1	57.1	57.5	55.9	53.8	43.8	33.8	
20000	46.9	49.4	53.0	53.3	51.0	51.6	48.8	52.4	48.4	49.7	52.2	50.4	49.5	51.2	51.6	50.3	48.0	38.0	28.0	
25000	40.6	43.0	46.6	46.7	44.6	45.0	42.4	45.9	42.0	43.0	45.9	44.1	43.4	44.8	45.0	44.1	41.7	31.7	21.7	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

AV-8A AIRCRAFT

ENG. F402-RR-401

GROUND RUNUP

OPERATION:

HOVER, 50 FOOT, 98% RPM

SINGLE ENGINE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-005

RUN 03

AIRCRAFT CODE 134

OPERATION CODE 01025

PROFILE VERSION A

06 NOV 75

PAGE J3

	P=PNLT										A=AL										T=ALT													
	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140	40	50	60	70	80	90	100	110	120	130	140	
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

F-8 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 527
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER - 95% RPM	237 - 245
TAKEOFF - 94.5% RPM	246 - 254
CRUISE - 92.3% RPM	255 - 263
APPROACH - 89% RPM	264 - 272

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

20 JUL 77

AEROSPACE MEDICAL RESEARCH AIR FORCE
LABORATORY BASE, OHIO

[illegible]

	40	50	60	70	80	90	100	110	MEAN	SD
F 50	88.7	.
R 63	88.1	.
E 80	84.1	.
U 100	96.2	.
R 125	103.1	.
E 160	105.2	.
Q 200	103.7	.
U 250	100.6	.
E 315	106.7	.
Q 400	103.6	.
U 500	104.4	.
E 630	102.3	.
Q 800	100.9	.
U 1000	99.9	.
R 1250	99.0	.
E 1600	97.2	.
Q 2000	96.2	.
U 2500	94.7	.
E 3150	93.2	.
Q 4000	90.6	.
U 5000	87.5	.
R 6300	84.2	.
E 8000	80.6	.
Q 10000	72.9	.

F-8 AFTERBURNER 95 % RPM
 AIRSPEED = 300 KNOTS TEMP = 59 F PNLT = 122.6 PNOB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 121.9 PNOB
 NO. OF RECORDS = 1 IDENT: 6.6-527-101-200777 ALT = 110.7 DBA
 AL = 109.9 DBA

[illegible]

ST-E									
F-8 AFTERBURNER									
200	(	95 % RPM	.	.	.	.	.	.	ST E
250	(	AIRSPEED = 300 KNOTS	.	.	.	.	.	.	ST E
315	(	TEMP = 59 F REL HUMID = 70 %	.	.	.	.	.	.	ST E
400	(	DELTA N = 0.0 DB	.	.	.	.	.	.	X E
500	(	NO. OF RECORDS: 1	.	.	.	.	.	.	ST E
	(	IDENT: 6.6-527-101-200777-A	.	.	.	.	.	.	ST E
S 630	(	.	.	.	.	.	.	.	ST E
L 800	(	.	.	.	.	.	.	.	X E
N 1000	(	.	.	.	.	.	.	.	ST E
D 1250	(	.	.	.	.	.	.	.	X E
I 1600	(	.	.	.	.	.	.	.	ST E
S 2000	(	.	.	.	.	.	.	.	ST E
A 2500	(	.	.	.	.	.	.	.	STE
C 3150	(	.	.	.	.	.	.	.	STE
I 4000	(	.	.	.	.	.	.	.	STE
F 5000	(	.	.	.	.	.	.	.	STE
E 6300	(	.	.	.	.	.	.	.	XE
E 8000	(	.	.	.	.	.	.	.	XE
10000	(	.	.	.	.	.	.	.	XE
12500	(	.	.	.	.	.	.	.	XE
16000	(	.	.	.	.	.	.	.	XE
20000	(	.	.	.	.	.	.	.	X
25000	(	.	.	.	.	.	.	.	X
NOISE LEVEL IN DB									
50		60	70	80	90	100	110	120	130

	20	30	40	50	60	70	80	90	MEAN	SD
50	(.	75.2)
63	(.	X.	.	74.7)
80	(.	.	.	.	X	.	.	69.8)
100	(.	X.	81.6)
125	(.	X.	87.5)
160	(.	X.	89.6)
200	(.	X.	86.1)
250	(.	X.	87.1)
315	(.	X.	89.4)
400	(.	X.	88.9)
500	(.	X.	88.1)
630	(.	X.	88.2)
800	(.	X.	86.3)
1000	(.	X.	86.8)
1250	(.	X.	86.6)
1600	(.	X.	86.9)
2000	(.	X.	86.6)
2500	(.	X.	84.9)
3150	(.	X.	83.5)
4000	(.	X.	.	79.5)
5000	(.	X.	.	75.1)
6300	(.	.	.	.	X.	.	.	70.9)
8000	(.	64.2)
10000	(.	52.7)

F R E Q U E N C Y I N H Z

F-8 TAKEOFF 94.5 % RPM

AIRSPEED = 300 KNOTS
 SLANT DISTANCE = 1000 FEET

TEMP = 59 F
 REL HUMID = 70 %

NO. OF RECORDS = 1 IDENT: 6.6-527-103-200777

PNLT = 109.2 PNDB
 PNL = 109.2 PNDB
 ALT = 96.8 DBA
 AL = 96.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 527	
F-8																									OPS CODE: 103	
(94.5 % RPM)																									PROFILE VER: A	
(AIRSPEED = 300 KNOTS)																									20 JUL 77	
(DELTA N = 0.0 DB)																									PAGE H2	
METEOROLOGY:																										
(TEMP)																										
(REL HUMID = 70 %)																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	89	89	84	96	102	104	100	101	104	103	103	103	101	102	102	103	103	102	102	100	97	95	93	89		
250	87	87	82	94	100	102	98	99	102	101	101	101	99	99	100	100	101	100	100	97	94	93	91	86		
315	85	85	80	92	98	100	96	97	100	99	99	99	97	98	98	99	99	98	97	95	91	90	87	82		
400	83	83	78	90	96	98	94	95	98	97	97	97	95	96	96	96	96	95	95	92	89	87	84	78		
500	81	81	76	88	94	96	92	93	96	95	94	95	93	94	94	94	94	93	92	89	86	83	80	73		
630	79	79	74	86	92	94	90	91	94	93	92	93	91	91	91	92	92	90	90	86	83	80	75	67		
800	77	77	72	84	90	92	88	89	91	91	90	90	89	89	89	89	89	88	87	83	79	76	70	60		
1000	75	75	70	82	88	90	86	87	89	89	88	88	86	87	87	87	87	85	84	80	75	71	64	53		
1250	73	73	68	80	85	88	84	85	87	87	86	86	84	84	84	84	84	82	80	75	71	65	57	43		
1600	71	71	66	78	83	85	82	83	85	85	84	84	82	82	81	81	81	78	76	71	66	59	49	32		
2000	69	69	64	75	81	83	80	81	83	82	81	81	79	79	79	78	77	75	72	66	60	52	39	19		
2500	67	67	62	73	79	81	78	79	81	80	79	79	76	77	76	75	74	71	67	60	53	43	27	2		
3150	65	64	60	71	77	79	75	76	78	78	76	76	74	74	72	72	70	66	61	52	45	32	13			
4000	63	62	57	69	75	77	73	74	76	75	74	73	71	70	69	68	65	61	55	44	35	20				
5000	61	60	55	67	73	75	71	72	74	73	71	70	67	67	65	63	60	54	47	34	24	4				
6300	59	58	53	65	71	72	69	69	71	70	68	67	64	63	60	58	54	47	38	22	10					
8000	57	56	51	63	68	70	66	67	68	67	65	64	60	58	55	52	47	38	27	7						
10000	55	54	49	60	66	67	63	64	65	64	61	60	55	53	49	45	38	28	13							
12500	52	52	46	58	63	65	61	61	62	60	57	55	50	47	43	36	28	15								
16000	50	49	44	55	61	62	58	58	59	56	53	50	44	40	34	26	16									
20000	48	47	42	53	58	59	54	54	55	52	48	44	37	32	24	14	1									
25000	45	44	39	50	55	56	51	50	50	46	42	37	29	22	13											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:									
(OPERATION:) METEOROLOGY:									
(TAKEOFF) TEMP									
(94.5 % RPM) REL HUMID = 70 %									
(AIRSPEED = 300 KNOTS) DELTA N = 0.0 DB									
() PAGE 12									
IDENTIFICATION:									
OMEGA 6.6									
A/C CODE: 527									
OPS CODE: 103									
PROFILE VER: A									
20 JUL 77									
PAGE 12									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	113.0	113.0	126.6	126.6	112.5	113.3	116.4		
250	110.9	110.9	124.4	124.4	111.4	112.2	115.2		
315	108.7	108.7	122.1	122.1	110.2	111.0	113.9		
400	106.4	106.4	119.7	119.7	108.9	109.7	112.5		
500	104.1	104.1	117.2	117.2	107.6	108.4	111.0		
630	101.7	101.7	114.6	114.6	106.2	107.0	109.4		
800	99.3	99.3	112.0	112.0	104.8	105.6	107.8		
1000	96.8	96.8	109.2	109.2	103.3	104.1	106.0		
1250	94.2	94.2	106.3	106.3	101.7	102.5	104.1		
1600	91.6	91.6	103.3	103.3	100.0	100.8	102.1		
2000	88.8	88.8	100.2	100.2	98.3	99.1	100.0		
2500	85.9	85.9	96.8	96.8	96.4	97.2	97.6		
3150	82.9	82.9	93.3	93.3	94.4	95.2	95.1		
4000	79.8	79.8	90.0	90.0	92.3	93.0	92.7		
5000	76.6	76.6	86.7	86.7	90.1	90.6	90.2		
6300	73.3	73.3	83.2	83.2	87.8	88.1	87.5		
8000	69.9	69.9	79.5	79.5	85.4	85.5	84.7		
10000	66.3	66.3	75.8	75.8	82.8	82.8	81.8		
12500	62.5	62.5	71.8	71.8	80.0	80.0	78.8		
16000	58.6	58.6	67.6	67.6	77.1	77.1	75.6		
20000	54.4	54.4	63.0	63.0	73.9	73.9	72.0		
25000	50.0	50.0	58.2	58.2	70.5	70.5	68.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	F-8	TAKEOFF	X-E
200	(.)	(.)	(.)
250	(.)	94.5 % RPM	(.)
315	(.)	AIRSPEED = 300 KNOTS	(.)
400	(.)	TEMP = 59 F REL HUMID = 70 %	(.)
500	(.)	DELTA N = 0.0 DB	(.)
630	(.)	NO. OF RECORDS: 1	(.)
800	(.)	IDENT: 6.6-527-103-200777-A	(.)
1000	(.)	(.)	(.)
1250	(.)	(.)	(.)
1600	(.)	(.)	(.)
2000	(.)	(.)	(.)
2500	(.)	(.)	(.)
3000	(.)	(.)	(.)
3500	(.)	(.)	(.)
4000	(.)	(.)	(.)
4500	(.)	(.)	(.)
5000	(.)	(.)	(.)
5500	(.)	(.)	(.)
6000	(.)	(.)	(.)
6500	(.)	(.)	(.)
7000	(.)	(.)	(.)
7500	(.)	(.)	(.)
8000	(.)	(.)	(.)
8500	(.)	(.)	(.)
9000	(.)	(.)	(.)
9500	(.)	(.)	(.)
10000	(.)	(.)	(.)
10500	(.)	(.)	(.)
11000	(.)	(.)	(.)
11500	(.)	(.)	(.)
12000	(.)	(.)	(.)
12500	(.)	(.)	(.)
13000	(.)	(.)	(.)
13500	(.)	(.)	(.)
14000	(.)	(.)	(.)
14500	(.)	(.)	(.)
15000	(.)	(.)	(.)
15500	(.)	(.)	(.)
16000	(.)	(.)	(.)
16500	(.)	(.)	(.)
17000	(.)	(.)	(.)
17500	(.)	(.)	(.)
18000	(.)	(.)	(.)
18500	(.)	(.)	(.)
19000	(.)	(.)	(.)
19500	(.)	(.)	(.)
20000	(.)	(.)	(.)
20500	(.)	(.)	(.)
21000	(.)	(.)	(.)
21500	(.)	(.)	(.)
22000	(.)	(.)	(.)
22500	(.)	(.)	(.)
23000	(.)	(.)	(.)
23500	(.)	(.)	(.)
24000	(.)	(.)	(.)
24500	(.)	(.)	(.)
25000	(.)	(.)	(.)

[illegible]

	20	30	40	50	60	70	80	90	MEAN	SD
50	(	(	(	(	(	(	(	(	66.9)
63	(	(	(	(	(	(	(	(	67.2)
80	(	(	(	(	(	(	(	(	67.4)
100	(	(	(	(	(	(	(	(	72.9)
125	(	(	(	(	(	(	(	(	79.3)
160	(	(	(	(	(	(	(	(	82.1)
200	(	(	(	(	(	(	(	(	78.9)
250	(	(	(	(	(	(	(	(	78.9)
315	(	(	(	(	(	(	(	(	83.5)
400	(	(	(	(	(	(	(	(	81.2)
500	(	(	(	(	(	(	(	(	83.6)
630	(	(	(	(	(	(	(	(	84.1)
800	(	(	(	(	(	(	(	(	82.1)
1000	(	(	(	(	(	(	(	(	82.7)
1250	(	(	(	(	(	(	(	(	82.7)
1600	(	(	(	(	(	(	(	(	82.0)
2000	(	(	(	(	(	(	(	(	81.5)
2500	(	(	(	(	(	(	(	(	80.7)
3150	(	(	(	(	(	(	(	(	77.8)
4000	(	(	(	(	(	(	(	(	74.6)
5000	(	(	(	(	(	(	(	(	70.8)
6300	(	(	(	(	(	(	(	(	64.9)
8000	(	(	(	(	(	(	(	(	58.4)
10000	(	(	(	(	(	(	(	(	45.5)

F-8 CRUISE 92.3 % RPM
 AIRSPEED = 370 KNOTS TEMP = 59 F PNL T = 104.7 PNOB
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 % PNL = 104.1 PNOB
 NO. OF RECORDS = 1 IDENT: 6.6-527-104-200777 ALT = 92.6 DBA
 AL = 92.1 DBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 527	
(CRUISE										OPS CODE: 104	
(92.3 % RPM										PROFILE VER: A	
(F-8										20 JUL 77	
(AIRSPEED = 370 KNOTS										PAGE 13	
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	108.3	108.8	121.4	121.9	105.4	106.4	109.5				
250	106.1	106.7	119.1	119.7	104.2	105.2	108.3				
315	103.9	104.5	116.8	117.4	103.0	104.0	107.0				
400	101.6	102.2	114.5	115.1	101.8	102.8	105.7				
500	99.3	99.9	112.1	112.6	100.5	101.5	104.2				
630	97.0	97.6	109.5	110.1	99.1	100.1	102.7				
800	94.6	95.1	106.9	107.5	97.7	98.7	101.1				
1000	92.1	92.6	104.1	104.7	96.2	97.2	99.3				
1250	89.5	90.0	101.2	101.8	94.6	95.6	97.4				
1600	86.8	87.4	98.1	98.6	92.9	93.9	95.2				
2000	84.0	84.6	94.7	95.3	91.1	92.1	92.9				
2500	81.1	81.7	91.3	91.8	89.2	90.2	90.4				
3150	78.1	78.6	87.6	88.2	87.2	88.2	87.8				
4000	74.9	75.3	84.1	84.6	85.0	85.8	85.1				
5000	71.6	71.9	80.6	81.0	82.7	83.3	82.4				
6300	68.1	68.3	77.0	77.2	80.2	80.6	79.6				
8000	64.5	64.6	73.2	73.3	77.6	77.8	76.6				
10000	60.6	60.6	69.4	69.4	74.8	74.8	73.6				
12500	56.6	56.6	65.3	65.3	71.8	71.8	70.5				
16000	52.4	52.4	60.9	60.9	68.5	68.5	67.0				
20000	47.9	47.9	56.1	56.1	65.1	65.1	63.3				
25000	43.2	43.2	50.9	50.9	61.4	61.4	59.1				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	F-8	CRUISE	A+	*P
200	(.)	(.)	(.)	(.)
250	(.)	(.)	(.)	(.)
315	(.)	(.)	(.)	(.)
400	(.)	(.)	(.)	(.)
500	(.)	(.)	(.)	(.)
630	(.)	(.)	(.)	(.)
800	(.)	(.)	(.)	(.)
1000	(.)	(.)	(.)	(.)
1250	(.)	(.)	(.)	(.)
1600	(.)	(.)	(.)	(.)
2000	(.)	(.)	(.)	(.)
2500	(.)	(.)	(.)	(.)
3150	(.)	(.)	(.)	(.)
4000	(.)	(.)	(.)	(.)
5000	(.)	(.)	(.)	(.)
6300	(.)	(.)	(.)	(.)
8000	(.)	(.)	(.)	(.)
10000	(.)	(.)	(.)	(.)
12500	(.)	(.)	(.)	(.)
16000	(.)	(.)	(.)	(.)
20000	(.)	(.)	(.)	(.)
25000	(.)	(.)	(.)	(.)

	F-8	CRUISE	ST-E
200	(((
250	(	92.3 % RPM	(
315	(	AIR SPEED = 370 KNOTS	(
400	(	TEMP = 59 F REL HUMID = 70 %	(
500	(	DELTA N = 0.0 DB	(
630	(	NO. OF RECORDS: 1	(
800	(	IDENT: 6.6-527-104-200777-A	(
1000	(((
1250	(((
1600	(((
2000	(((
2500	(((
3150	(((
4000	(((
5000	(((
6300	(((
8000	(((
10000	(((
12500	(((
16000	(((
20000	(((
25000	(((

F-8
 92.3 % RPM
 AIR SPEED = 370 KNOTS
 TEMP = 59 F REL HUMID = 70 %
 DELTA N = 0.0 DB
 NO. OF RECORDS: 1
 IDENT: 6.6-527-104-200777-A

S L A N T D I S T A N C E I N F E E T

30 40 50 60 70 80 90 100 110

NOISE LEVEL IN DB

AIR TO GROUND
 E = EPNL
 T = SELT
 S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 527																							
F-8		OPS CODE: 104																							
		PROFILE VER: A																							
		20 JUL 77																							
		PAGE L3																							
		DELTA N = 0.0 DB																							
		AIRSPEED = 370 KNOTS																							
		METEOROLOGY:																							
		TEMP = 59 F																							
		REL HUMID = 70 %																							
		FREQUENCY BAND NUMBER																							
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	76	76	76	82	88	91	88	88	93	91	93	94	92	93	93	93	93	93	91	90	87	84	83	77	
250	74	74	74	80	86	89	86	86	91	89	91	92	90	91	91	91	91	91	89	88	85	82	80	74	
315	72	72	72	78	84	87	84	84	89	87	89	90	88	89	89	89	89	89	87	85	82	79	77	70	
400	70	70	70	76	82	85	82	82	87	85	87	88	86	87	87	86	86	86	84	82	79	76	73	65	
500	68	68	68	74	80	83	79	80	85	82	85	86	84	84	85	84	84	84	82	80	76	72	69	61	
630	66	66	66	72	78	80	77	77	83	80	83	83	82	82	82	82	82	81	79	77	73	69	64	55	
800	64	64	64	70	75	77	74	75	81	78	81	81	79	80	80	80	79	79	76	73	70	65	59	48	
1000	62	62	62	67	72	74	71	72	78	76	79	79	77	78	78	77	77	76	73	70	66	60	53	41	
1250	60	60	59	64	69	71	68	68	75	74	76	77	75	75	75	74	74	73	69	66	61	54	46	31	
1600	58	57	56	60	65	68	64	65	72	72	74	75	72	73	73	72	71	69	66	61	56	48	38	20	
2000	55	53	52	56	62	64	61	61	69	70	72	72	70	70	70	69	67	66	61	56	51	41	28	7	
2500	51	49	48	52	57	60	56	57	65	66	69	70	67	67	67	65	64	61	56	50	44	32	16		
3150	47	45	44	47	52	55	51	52	60	62	66	67	64	64	64	62	60	57	51	43	36	21	2		
4000	43	40	38	42	47	49	45	46	55	57	62	64	61	61	60	58	55	51	44	34	26	9			
5000	38	35	33	37	42	44	41	41	49	52	58	59	58	58	56	53	50	45	36	24	14				
6300	33	31	29	32	37	39	36	36	43	46	54	55	54	54	52	48	44	38	27	12	0				
8000	30	29	27	30	35	37	33	33	40	43	50	51	50	49	46	42	37	29	16						
10000	28	26	24	28	33	34	31	31	37	40	47	48	45	44	40	35	28	18	2						
12500	26	24	22	25	30	32	28	28	34	36	43	43	40	38	34	26	18	5							
16000	24	22	20	23	28	29	25	24	31	32	38	38	34	31	25	16	6								
20000	22	19	17	20	25	26	22	21	27	28	33	32	27	23	15	4									
25000	19	17	15	17	22	23	18	17	22	23	27	25	19	13	4										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

	F-8	CRUISE	S-T-E
200	()
250	(	92.3 % RPM	
315	(	AIRSPED = 370 KNOTS	
400	(	TEMP = 59 F REL HUMID = 70 %	
500	(	DELTA N = 0.0 DB	
630	(	NO. OF RECORDS: 1	
800	(	IDENT: 6.6-527-104-200777-A	
1000	(
1250	(
1500	(
1750	(
2000	(
2250	(
2500	(
2750	(
3000	(
3250	(
3500	(
3750	(
4000	(
4250	(
4500	(
4750	(
5000	(
5250	(
5500	(
5750	(
6000	(
6250	(
6500	(
6750	(
7000	(
7250	(
7500	(
7750	(
8000	(
8250	(
8500	(
8750	(
9000	(
9250	(
9500	(
9750	(
10000	(
10250	(
10500	(
10750	(
11000	(
11250	(
11500	(
11750	(
12000	(
12250	(
12500	(

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
(OPERATION:)										A/C CODE: 527	
(APPROACH)										OPS CODE: 105	
(89 % RPM)										PROFILE VER: A	
()										20 JUL 77	
(AIRSPEED = 200 KNOTS)										PAGE 14	
METEOROLOGY:											
TEMP = 59 F											
REL HUMID = 70 %											
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	110.9	111.6	123.8	124.4	108.4	109.5	113.1				
250	108.8	109.4	121.5	122.2	107.3	108.4	111.8				
315	106.6	107.2	119.2	119.8	106.0	107.1	110.5				
400	104.3	105.0	116.8	117.4	104.8	105.9	109.1				
500	102.0	102.7	114.3	115.0	103.5	104.6	107.7				
630	99.7	100.3	111.8	112.4	102.2	103.3	106.1				
800	97.3	97.9	109.1	109.7	100.8	101.9	104.4				
1000	94.8	95.5	106.3	106.9	99.3	100.4	102.6				
1250	92.3	92.9	103.3	103.9	97.7	98.8	100.6				
1600	89.6	90.3	100.2	100.8	96.1	97.2	98.5				
2000	86.9	87.5	96.9	97.6	94.4	95.5	96.3				
2500	84.0	84.7	93.9	94.5	92.5	93.6	94.2				
3150	81.1	81.7	90.7	91.4	90.6	91.7	92.0				
4000	78.0	78.5	87.4	87.9	88.5	89.3	89.5				
5030	74.7	75.1	84.0	84.3	86.2	86.9	86.9				
6300	71.3	71.6	80.4	80.7	83.8	84.3	84.1				
8000	67.7	67.9	76.7	76.9	81.2	81.5	81.2				
10000	64.0	64.0	72.9	72.9	78.4	78.4	78.1				
12500	59.9	59.9	68.8	68.8	75.4	75.4	75.0				
16000	55.7	55.7	64.3	64.3	72.2	72.2	71.6				
20000	51.3	51.3	59.6	59.6	68.8	68.8	67.9				
25000	46.6	46.6	54.6	54.6	65.1	65.1	63.8				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

F-8 APPROACH										A+-----X-----									
200	(
250	(			89 % RPM															
315	(			AIRSPEED = 200 KNOTS															
400	(			TEMP = 59 F															
500	(			DELTA N = 0.0 DB															
630	(			NO. OF RECORDS: 1															
800	(			IDENT: 6.6-527-105-200777-A															
1000	(
1250	(
1600	(
2000	(
2500	(
3150	(
4000	(
5000	(
6300	(
8000	(
10000	(
12500	(
16000	(
20000	(
25000	(
										-----X-----									
										50 60 70 80 90 100 110 120 130									
										NOISE LEVEL IN DB									

S-T-E											
F-8 APPROACH											
200	(	89 % RPM									
250	(	AIR SPEED = 260 KNOTS								ST . E	
315	(	TEMP = 59 F REL HUMID = 70 %								ST . E	
400	(	DELTA N = 0.0 DB								ST . E	
500	(	NO. OF RECORDS: 1								ST . E	
	(	IDENT: 6.6-527-105-200777-A								ST . E	
S 630	(									ST . E	
L 800	(									ST . E	
N 1000	(									ST . E	
D 1250	(									ST . E	
I 1600	(									ST . E	
T 2000	(									ST . E	
N 2500	(									ST . E	
E 3150	(									ST . E	
I 4000	(									ST . E	
F 5000	(									ST . E	
E 6300	(									ST . E	
E 8000	(									ST . E	
10000	(									ST . E	
12500	(									ST . E	
16000	(									ST . E	
20000	(									ST . E	
25000	(									ST . E	
AIR TO GROUND											
E = EPNL											
T = SELT											
S = SEL											
EX											
NOISE LEVEL IN DB											
40		50	60	70	80	90	100	110	120		

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 527	
F-8										OPS CODE: 105	
										PROFILE VER: A	
										20 JUL 77	
										PAGE M4	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

[illegible]

NOISE PRODUCED ON THE GROUND BY

F-8 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 77-527-001
AIRCRAFT CODE: 527
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

<u>POWER SETTING</u>		<u>PAGE</u>
IDLE - 53% RPM	279	274
70% RPM	280	285
MILITARY - 9% RPM	286	291
AFTERBURNER	292	296

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

02 NOV 77

AEROSPACE MEDICAL RESEARCH LABORATORY, OHIO
AERIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible]

(TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (AIRCRAFT CODE 527 F-8 AIRCRAFT (IDLE, 53% RPM, F-8) TEMP = 59 F) OPERATION CODE 01013 ENG. J57-P-20 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A GROUND RUNUP (EST. F-1000 +0.508) REL HUMID = 70 %) 02 NOV 77 ((DELTA N = .5 DB) PAGE 01) IDENTIFICATION:) OMEGA 8.2) TEST 77-527-001) RUN 01)																
(BAND CENTER (FREQ (HZ) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180) (50 67< 63< 62< 68< 63< 64< 66< 63 65< 65< 65 65< 67 68 70 71 70 69 68 71 73 74 76 79 77 76 73 72 69 59< 54< 53< 59<) (63 67< 63< 62< 68< 63< 64< 66< 64< 65< 65< 65 65< 67 68 70 71 70 69 68 71 73 74 76 77 77 71 65 54< 51< 58<) (80 67< 63 62 68< 63 64 66 65 65 65 65 67 68 70 71 70 69 68 71 73 74 76 77 77 72 66 52 50< 57) (100 67 66 68 68 69 71 72 72 71 70 72 73 74 75 76 77 77 72 69 66 64 49 45< 52) (125 68 66 68 68 67 65 69 72 72 72 73 74 75 76 77 77 72 69 66 64 49 45< 52) (160 70 70 71 71 68 69 72 72 72 73 74 75 76 77 77 72 69 66 64 49 45< 52) (200 65 64 69 67 68 66 69 70 69 70 70 71 72 73 74 75 76 77 72 69 66 64 49 45< 52) (250 66 66 69 68 67 67 70 69 70 70 71 72 73 74 75 76 77 72 69 66 64 49 45< 52) (315 68 71 70 68 70 69 70 69 70 71 72 73 74 75 76 77 72 69 66 64 49 45< 52) (400 69 71 71 72 71 70 73 72 74 73 76 77 77 72 69 66 64 49 45< 52) (500 70 70 73 74 72 71 70 73 71 72 75 76 77 72 69 66 64 49 45< 52) (630 68 71 70 70 70 68 67 67 67 68 69 72 72 72 69 66 64 49 45< 52) (800 69 71 72 72 69 69 68 67 67 67 68 69 72 72 69 66 64 49 45< 52) (1000 69 70 64 69 67 71 62 64 64 66 66 70 73 69 68 65 50 44 47) (1250 68 67 68 71 68 79 69 64 63 64 65 68 73 68 65 63 48 41 46) (1600 75 71 74 56 67 62 64 59 59 61 62 63 72 68 65 63 48 41 45) (2000 76 75 75 70 72 61 69 64 64 64 65 62 69 66 63 62 48 41 45) (2500 77 79 78 77 78 72 73 70 67 67 68 69 70 75 70 66 69 52 46 56) (3150 74 76 72 75 72 70 67 65 63 66 69 69 72 68 65 63 50 43 47) (4000 74 74 74 76 70 72 68 62 62 64 66 66 69 65 65 64 51 44 43) (5000 71 71 71 67 69 64 66 61 61 62 64 65 69 64 65 63 51 43 42) (6300 67 67 57 68 64 61 63 58 59 61 52 63 67 63 63 63 49 43 42) (8000 65 65 65 63 62 60 60 58 56 59 61 61 65 61 61 59 46 39 39) (10000 60 60 60 60 57 54 55 52 54 57 58 60 63 59 59 57 43 36 37) (OVERALL 84 85 85 85 83 83 83 81 82 82 84 85 87 86 83 81 74 69 73) (XXX< = EXTRAPOLATED OR INTERPOLATED SPL)																

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-8 AIRCRAFT																			
(ENG. J57-P-20																			
(GROUND RUNUP																			
(OPERATION: (IDLE, 53% RPM, F-8																			
(SINGLE ENGINE																			
(EST. F-1000 +0.508																			
(METEOROLOGY: (TEMP = 59 F																			
(BAR PRESS =29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = .5 08																			
IDENTIFICATION: (OMEGA 8.2																			
(TEST 77-527-001																			
(RUN 01																			
(AIRCRAFT CODE 527																			
(OPERATION CODE 01013																			
(PROFILE VERSION A																			
(02 NOV 77																			
(PAGE 01																			
DISTANCE																			
(FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.3	101.6	100.8	100.2	99.8	96.9	97.0	94.2	93.2	93.8	96.7	96.6	100.6	97.0	94.7	93.9	80.0	74.0	80.4
250	98.1	99.4	98.5	98.0	97.6	94.6	94.8	92.0	91.0	91.6	94.5	94.3	98.4	94.7	92.4	91.6	77.7	71.6	78.1
315	95.8	97.0	96.2	95.6	95.3	92.2	92.5	89.7	88.7	89.2	92.2	92.0	96.1	92.4	90.0	89.3	75.3	69.3	75.8
400	93.4	94.6	93.8	93.2	92.9	89.7	90.1	87.3	86.3	86.8	89.8	89.6	93.7	90.0	87.5	86.9	72.8	66.8	73.4
500	90.9	92.1	91.3	90.7	90.4	87.1	87.6	84.8	83.8	84.3	87.3	87.1	91.2	87.5	85.0	84.4	70.3	64.2	70.9
630	88.2	89.5	88.7	88.1	87.8	84.6	85.0	82.2	81.2	81.6	84.7	84.5	88.6	84.9	82.4	81.7	67.6	61.4	68.3
800	85.5	86.8	85.9	85.3	85.1	81.9	82.2	79.5	78.4	78.9	81.9	81.8	85.8	82.2	79.6	78.9	64.7	58.3	65.5
1000	82.5	83.8	83.0	82.4	82.1	79.2	79.3	76.6	75.5	76.0	79.0	78.8	82.9	79.3	76.6	75.9	61.5	55.0	62.4
1250	79.3	80.7	79.8	79.2	79.0	76.3	76.2	73.5	72.6	72.8	75.9	75.7	79.8	76.4	73.5	72.7	58.0	51.3	59.0
1600	75.9	77.3	76.4	75.8	75.6	73.2	72.8	70.1	69.6	69.7	72.5	72.7	76.5	73.4	70.4	69.3	54.1	47.0	55.3
2000	72.1	73.5	72.7	72.1	71.9	69.8	69.1	66.4	66.5	66.6	69.1	69.5	72.8	70.2	67.1	65.5	49.6	42.2	51.2
2500	68.0	69.4	68.6	68.0	67.8	66.2	64.9	62.2	62.4	62.6	65.1	65.5	68.8	66.2	63.0	61.2	44.1	36.1	46.1
3150	63.3	64.8	64.0	63.3	63.2	62.3	60.3	57.7	58.0	58.4	60.9	61.0	64.7	61.8	58.5	56.3	37.2	28.6	39.9
4000	58.3	59.6	58.8	58.0	58.0	57.8	55.0	52.8	53.1	53.5	56.2	56.0	60.1	56.8	53.7	50.6	29.6	18.5	32.9
5000	52.5	53.5	52.7	51.9	51.8	52.9	49.6	47.2	47.8	48.2	50.8	50.4	55.0	51.2	47.9	43.6	16.4	8.3	23.1
6300	46.3	46.3	46.0	45.7	44.5	47.5	43.4	40.9	41.4	41.9	44.9	44.4	49.5	45.3	41.6	36.8	3.2		9.9
8000	38.7	39.7	40.0	40.3	38.8	41.5	38.3	35.8	36.3	36.8	39.8	39.3	44.4	40.1	36.6	30.8			
10000	31.3	33.0	33.8	34.2	32.2	34.3	31.2	29.4	30.3	31.1	34.1	33.7	38.7	34.6	30.2	21.9			
12500	21.3	23.9	25.7	27.8	24.2	25.8	25.5	22.8	24.1	24.5	27.8	27.9	32.9	28.5	22.7	10.7			
16000	8.6	11.8	16.8	19.0	14.4	9.5	16.1	13.1	14.0	14.8	20.1	18.1	25.7	18.9	12.8				
20000			7.9	8.1	4.5	6.8	6.8	3.5	5.1	5.2	8.6	8.3	15.6	9.1	3.0				
25000													5.6						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-8 AIRCRAFT)																			
(ENG. J57-P-20)																			
(GROUND RUNUP)																			
(OPERATION: IDLE, 53% RPM, F-8)																			
(SINGLE ENGINE)																			
(EST. F-1000 +0.508)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = .5 DB)																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 77-527-001																			
RUN 01																			
AIRCRAFT CODE 527																			
OPERATION CODE 01013																			
PROFILE VERSION A																			
02 NOV 77																			
PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	101.4	102.8	102.3	101.7	101.9	101.1	98.8	96.0	94.3	94.9	97.8	98.0	102.0	97.5	95.4	96.0	81.0	75.2	83.7
250	99.1	100.6	100.0	99.4	99.6	98.7	96.6	93.7	92.1	92.7	95.6	95.7	99.8	95.4	93.1	93.7	78.7	72.9	81.4
315	96.8	98.2	97.7	97.1	97.3	96.3	94.3	91.4	89.8	90.3	93.3	93.4	97.5	93.1	90.7	91.4	76.3	70.5	79.0
400	94.4	95.9	95.3	94.7	94.9	93.8	91.9	89.0	87.4	87.9	90.9	91.0	95.1	90.7	88.2	88.9	73.8	68.1	76.7
500	91.9	93.4	92.8	92.1	92.4	91.2	89.4	86.5	84.9	85.4	88.4	88.5	92.6	88.2	85.7	86.4	71.3	65.5	74.2
630	89.2	90.7	90.2	89.5	89.8	88.7	86.8	83.9	82.3	82.8	85.8	85.9	90.0	85.6	83.1	83.8	68.6	62.6	71.5
800	86.5	88.0	87.4	86.8	87.1	86.0	84.0	81.2	79.5	80.0	83.1	83.1	87.2	82.8	80.3	81.0	65.7	59.6	68.7
1000	83.5	85.0	84.5	83.8	84.2	83.3	81.1	78.3	76.6	77.1	80.1	80.2	84.3	79.9	77.3	78.0	62.5	56.2	65.7
1250	80.3	81.9	81.3	80.7	81.0	80.4	78.0	75.2	73.7	73.9	77.0	77.1	81.2	77.0	74.2	74.8	59.0	52.6	62.3
1500	76.9	78.5	78.0	77.3	77.7	77.3	74.6	71.8	70.7	70.8	73.6	74.1	77.9	74.0	71.4	71.4	55.1	48.2	58.6
2000	73.1	74.7	74.2	73.5	74.0	74.0	70.9	68.1	67.6	67.7	70.2	70.9	74.2	70.9	67.8	67.6	50.6	43.4	54.4
2500	69.0	70.6	70.1	69.4	69.9	70.4	66.7	63.9	63.5	63.7	66.3	66.9	70.2	66.9	63.7	63.3	45.1	37.3	49.3
3150	64.3	66.0	65.5	64.7	65.3	66.4	62.1	59.4	59.1	59.5	62.0	62.4	66.1	62.5	59.2	58.4	38.2	29.9	43.1
4000	59.1	60.5	60.0	59.2	59.6	61.1	56.4	54.2	53.9	54.3	57.1	57.1	61.2	57.4	54.3	52.3	30.4	19.5	35.5
5000	53.1	54.2	53.6	52.8	53.0	55.4	50.7	48.2	48.4	48.8	51.5	51.3	55.8	51.6	48.3	44.8	17.0	9.1	25.0
6300	46.7	46.8	46.6	46.3	45.3	49.2	44.1	41.6	41.8	42.4	45.4	44.9	50.1	45.6	41.9	37.6	3.6		11.2
8000	38.9	40.0	40.3	40.6	39.2	42.3	38.7	36.1	36.5	37.0	40.0	39.6	44.7	40.2	36.7	31.2			
10000	31.3	33.0	33.8	34.2	32.2	34.3	31.2	29.4	30.3	31.1	34.1	33.7	38.7	34.6	30.2	21.9			
12500	21.3	23.9	25.7	27.8	24.2	25.8	25.5	22.8	24.1	24.5	27.8	27.9	32.9	28.5	22.7	10.7			
16000	8.6	11.8	16.8	19.0	14.4	9.5	16.1	13.1	14.6	14.8	20.1	18.1	25.7	18.9	12.8				
20000			7.9	8.1	4.5		6.8	3.5	5.1	5.2	8.6	8.3	15.6	9.1	3.0				
25000													5.6						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-8 AIRCRAFT																			
ENG. J57-P-20																			
GROUND RUNUP																			
(OPERATION:)																			
(IDLE, 53% RPM, F-8)																			
(SINGLE ENGINE)																			
(EST. F-1000 +0.50B)																			
()																			
METEOROLOGY:)																			
TEMP = 59 F)																			
BAR PRESS =29.92 IN HG)																			
REL HUMID = 70 %)																			
DELTA N = .5 DB)																			
IDENTIFICATION:)																			
OMEGA 8.2)																			
TEST 77-527-001)																			
RUN 01)																			
AIRCRAFT CODE 527)																			
OPERATION CODE 01013)																			
PROFILE VERSION A)																			
02 NOV 77)																			
PAGE F1)																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	86.5	87.4	86.5	86.1	85.0	84.7	82.2	79.5	79.2	79.8	82.3	82.6	86.2	82.9	80.4	78.5	64.6	59.1	64.9
250	84.3	85.2	84.2	83.9	82.8	82.6	80.0	77.4	77.1	77.7	80.2	80.4	84.0	80.8	78.2	76.3	62.4	57.0	62.8
315	82.0	82.9	82.0	81.6	80.5	80.4	77.8	75.2	74.9	75.5	78.0	78.2	81.8	78.6	76.0	74.0	60.2	54.8	60.6
400	79.6	80.5	79.6	79.2	78.2	78.1	75.5	73.0	72.8	73.3	75.8	76.0	79.6	76.4	73.8	71.7	57.8	52.5	58.4
500	77.2	78.1	77.2	76.8	75.8	75.8	73.2	70.7	70.5	71.0	73.5	73.8	77.3	74.2	71.5	69.3	55.5	50.2	56.2
630	74.7	75.6	74.7	74.3	73.4	73.5	70.8	68.4	68.2	68.7	71.2	71.4	74.9	71.9	69.1	66.9	53.0	47.9	53.8
800	72.1	72.9	72.1	71.6	70.8	71.1	68.3	66.0	65.9	66.3	68.8	69.1	72.5	69.6	66.7	64.4	50.4	45.4	51.4
1000	69.3	70.2	69.4	68.9	68.1	68.6	65.7	63.5	63.5	63.9	66.3	66.6	70.0	67.2	64.2	61.7	47.7	42.9	48.9
1250	66.5	67.3	66.6	66.0	65.2	66.0	63.1	60.9	61.0	61.4	63.8	64.1	67.4	64.6	61.6	59.0	44.9	40.2	46.3
1600	63.4	64.2	63.6	63.1	62.3	63.3	60.3	58.3	58.4	58.8	61.1	61.4	64.7	62.0	59.0	56.2	42.0	37.4	43.5
2000	60.2	60.9	60.5	60.0	59.1	60.4	57.4	55.5	55.8	56.1	58.4	58.7	62.0	59.3	56.2	53.2	38.9	34.5	40.6
2500	56.8	57.4	57.1	56.7	55.7	57.4	54.2	52.4	52.7	53.0	55.3	55.6	58.8	56.1	53.2	50.1	35.5	31.3	37.3
3150	53.0	53.6	53.4	53.1	52.0	54.1	50.6	48.9	49.2	49.6	51.8	52.2	55.4	52.7	49.8	46.6	31.9	27.8	33.7
4000	49.0	49.6	49.5	49.3	48.0	50.6	46.7	45.1	45.3	45.9	47.9	48.4	51.6	48.9	46.0	42.9	28.0	23.9	29.8
5000	44.5	45.1	45.0	45.0	43.5	46.6	42.3	40.8	41.1	41.7	43.6	44.2	47.4	44.6	41.9	38.8	23.9	19.7	25.5
6300	39.6	40.3	40.3	40.5	38.8	42.3	37.8	36.3	36.6	37.2	39.1	39.8	43.0	40.1	37.5	34.3	19.4	15.3	21.0
8000	34.9	35.9	35.9	36.5	34.6	37.7	33.8	32.6	32.9	33.5	35.5	36.0	39.0	36.3	33.6	30.2	15.3	11.4	17.2
10000	29.9	31.2	31.4	32.1	30.2	32.6	29.7	28.5	29.0	29.5	31.6	31.9	34.8	32.2	29.4	25.7	10.9	7.4	13.3
12500	24.8	26.3	26.6	27.4	25.5	26.9	25.2	24.2	24.7	25.2	27.3	27.4	30.2	27.8	24.9	21.0	6.4	3.0	9.0
16000	19.3	21.0	21.4	22.3	20.5	20.8	20.4	19.4	20.1	20.4	22.6	22.6	25.3	23.0	20.0	15.8	1.8		4.4
20000	13.5	15.1	15.8	16.7	15.0	14.4	15.2	14.2	14.9	15.2	17.5	17.3	20.0	17.8	14.8	10.3			
25000	7.2	8.7	9.7	10.5	8.9	7.8	9.5	8.4	9.3	9.4	11.8	11.6	14.3	12.2	9.1	4.6			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (D3A)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(F-8 AIRCRAFT										) OMEGA 8.2									
(ENG. J57-P-20										) TEST 77-527-031									
(GROUND RUNUP										) RUN 91									
(OPERATION:										) AIRCRAFT CODE 527									
(IDLE, 53% RPM, F-8										) OPERATION CODE 01013									
(SINGLE ENGINE										) PROFILE VERSION A									
(EST. F-1000 +0.508										) 02 NOV 77									
( )										) DELTA N = .5 08									
( )										) PAGE 61									
DISTANCE		ANGLE (DEGREES)																	
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	87.5	88.6	88.0	87.5	87.1	86.8	84.0	81.2	80.3	80.9	83.5	83.9	87.6	83.6	81.1	80.6	65.6	60.4	68.1
250	85.3	86.4	85.8	85.3	84.8	86.7	81.8	79.1	78.2	78.8	81.3	81.8	85.4	81.4	78.9	78.3	63.4	58.2	66.0
315	83.0	84.1	83.5	83.0	82.6	84.5	79.6	76.9	76.0	76.6	79.1	79.6	83.2	79.3	76.7	76.1	61.2	56.0	63.9
400	80.6	81.7	81.2	80.6	80.3	82.2	77.3	74.7	73.9	74.4	76.9	77.4	81.0	77.1	74.5	73.8	58.8	53.8	61.7
500	78.2	79.3	78.7	78.2	77.9	79.9	75.0	72.4	71.6	72.1	74.6	75.2	78.7	74.9	72.2	71.4	56.5	51.5	59.5
630	75.7	76.8	76.3	75.7	75.4	77.6	72.6	70.1	69.3	69.8	72.3	72.8	76.3	72.6	69.8	68.9	54.0	49.1	57.1
800	73.1	74.1	73.7	73.0	72.8	75.2	70.1	67.7	67.0	67.4	69.9	70.5	73.9	70.2	67.4	66.4	51.4	46.7	54.7
1000	70.3	71.4	71.0	70.3	70.1	72.7	67.5	65.2	64.6	65.0	67.4	68.0	71.4	67.8	64.9	63.8	48.7	44.1	52.2
1250	67.5	68.5	68.1	67.5	67.3	70.1	64.9	62.6	62.1	62.5	64.9	65.5	68.8	65.3	62.3	61.1	45.9	41.4	49.5
1600	64.4	65.4	65.1	64.5	64.3	67.4	62.1	60.0	59.5	59.9	62.2	62.8	66.1	62.5	59.7	58.2	43.0	38.6	46.7
2000	61.2	62.1	62.0	61.4	61.2	64.5	59.2	57.2	56.9	57.2	59.5	60.1	63.4	59.9	56.9	55.3	39.9	35.7	43.8
2500	57.8	58.6	58.6	58.1	57.8	61.5	56.0	54.1	53.8	54.1	56.4	57.0	60.2	56.8	53.9	52.1	36.5	32.5	40.6
3150	54.0	54.8	55.0	54.5	54.1	58.2	52.4	50.6	50.3	50.7	52.9	53.6	56.8	53.3	50.5	48.7	32.9	29.0	37.0
4000	49.8	50.5	50.7	50.4	49.6	53.8	48.1	46.5	46.2	46.8	48.8	49.5	52.7	49.4	46.6	44.5	28.8	24.9	32.4
5000	45.1	45.8	46.0	45.9	44.7	49.1	43.4	41.8	41.7	42.3	44.3	45.1	48.2	45.0	42.3	40.0	24.5	20.5	27.4
6300	40.0	40.8	40.9	41.1	39.6	43.9	38.5	37.0	37.0	37.7	39.6	40.4	43.5	40.4	37.7	35.1	19.8	15.8	22.3
8000	35.1	36.1	36.2	36.7	35.0	38.5	34.2	32.9	33.1	33.8	35.7	36.3	39.3	36.5	33.7	30.6	15.5	11.7	17.9
10000	29.9	31.2	31.4	32.1	30.2	32.6	29.7	28.5	29.0	29.5	31.6	31.9	34.8	32.2	29.4	25.7	10.9	7.4	13.3
12500	24.8	26.3	26.6	27.4	25.5	26.9	25.2	24.2	24.7	25.2	27.3	27.4	30.2	27.8	24.9	21.0	6.4	3.0	9.0
16000	19.3	21.0	21.4	22.3	20.5	20.8	20.4	19.4	20.1	20.4	22.6	22.6	25.3	23.0	20.0	15.8	1.8		4.4
20000	13.5	15.1	15.8	16.7	15.0	14.4	15.2	14.2	14.9	15.2	17.5	17.3	20.0	17.8	14.8	10.3			
25000	7.2	8.7	9.7	10.5	8.9	7.8	9.5	8.4	9.3	9.4	11.8	11.6	14.3	12.2	9.1	4.6			

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																			IDENTIFICATION:) OMEGA 8.2) TEST 77-527-001) RUN 02) AIRCRAFT CODE 527) OPERATION CODE 01021) PROFILE VERSION A) 02 NOV 77) PAGE 02
NOISE SOURCE/SUBJECT: (F-8 AIRCRAFT) (ENG. J57-P-20) (GROUND RUNUP)																			METEOROLOGY:) TEMP = 59 F) BAR PRESS = 29.92 IN HG) REL HUMID = 70 %) DELTA N = .5 DB
BAND CENTER FREQ (HZ)																			ANGLE (DEGREES)
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	64	63	64	66	67	69	68	68	68	70	70	73	74	77	78	79	76	73
63	64	65	65	66	67	69	71	70	70	70	72	71	75	76	78	79	78	73	70
80	64	66	66	67	67	69	73	71	71	71	72	73	76	77	78	79	77	69	65
130	68	67	69	70	69	72	75	76	75	74	75	76	78	79	80	79	75	66	63
125	69	70	70	71	71	73	78	77	76	76	77	78	79	81	81	78	71	64	61
160	71	73	73	73	73	74	79	79	78	79	81	80	81	82	82	76	69	62	59
200	69	69	71	70	71	73	77	77	77	76	78	78	79	78	78	69	65	60	57
250	68	69	71	69	70	72	75	75	74	75	76	76	77	77	75	65	62	58	55
315	69	69	70	70	72	74	76	75	75	73	77	76	80	79	76	65	59	56	53
400	71	73	74	75	76	76	78	79	79	76	79	79	80	78	75	65	59	53	51
500	71	75	75	76	78	77	78	80	80	80	80	79	80	75	73	65	56	51	49
630	68	70	72	71	73	72	73	74	74	77	76	73	79	76	72	65	56	49	47
800	72	74	74	73	73	74	75	75	76	70	76	74	78	73	68	64	54	48	45
1000	75	74	73	71	71	73	69	71	72	71	71	73	77	72	69	64	53	47	43
1250	80	77	75	74	73	78	71	71	72	69	70	73	77	69	67	66	55	47	44
1600	75	72	70	69	68	69	67	66	68	67	67	69	75	69	66	62	53	46	43
2000	75	75	73	71	73	73	74	70	69	66	69	68	71	69	65	60	54	47	43
2500	82	83	84	80	81	81	81	76	74	67	71	67	67	67	64	59	56	48	44
3150	78	79	78	76	77	77	76	73	71	67	71	67	69	66	64	58	53	46	43
4000	82	83	81	79	78	82	76	77	78	75	81	76	81	77	72	64	60	53	51
5000	76	75	75	73	74	72	74	69	71	68	71	68	73	71	68	61	52	46	42
6300	73	76	74	73	73	72	71	68	70	67	69	68	69	67	66	60	51	44	40
8000	72	71	71	70	69	70	69	68	70	67	70	68	71	69	66	61	55	48	44
10000	66	66	66	65	65	65	64	64	65	63	66	64	68	66	64	59	51	45	39
OVERALL	89	89	89	87	88	89	89	89	88	87	90	89	91	90	89	86	84	79	76

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)													IDENTIFICATION:												
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE													OMEGA 8.2												
NOISE SOURCE/SUBJECT:													TEST 77-527-001												
F-3 AIRCRAFT													RUN 02												
ENG. J57-P-20													AIRCRAFT CODE 527												
GROUND RUNUP													OPERATION CODE 01021												
													LE BAR PRESS = 29.92 IN HG												
													REL HUMID = 70 %												
													DELTA N = .5 DB												
													PAGE 02												
DISTANCE													ANGLE (DEGREES)												
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180						
200	105.4	106.2	105.6	103.2	103.8	105.2	104.2	102.5	102.8	100.3	104.5	101.7	105.4	102.3	99.1	93.0	87.6	80.7	77.7						
250	103.1	103.9	103.3	100.9	101.6	102.9	102.0	100.2	100.5	98.0	102.2	99.4	103.1	99.9	96.8	90.6	85.2	78.3	75.3						
315	100.7	101.4	101.0	98.5	99.3	100.5	99.7	97.8	98.1	95.6	99.8	97.0	100.7	97.6	94.4	88.2	82.8	75.8	72.9						
400	98.1	98.9	98.6	96.1	96.8	97.9	97.3	95.3	95.6	93.1	97.3	94.5	98.2	95.1	91.9	85.7	80.2	73.3	70.3						
500	95.5	96.2	96.1	93.6	94.3	95.3	94.8	92.7	92.9	90.5	94.6	91.9	95.6	92.4	89.2	83.0	77.6	70.6	67.6						
630	92.6	93.5	93.4	91.0	91.7	92.5	92.1	89.9	90.1	87.7	91.8	89.1	92.8	89.6	86.4	80.2	74.7	67.8	64.7						
800	89.7	90.7	90.6	88.2	88.9	89.6	89.4	86.9	87.1	84.7	88.8	86.1	89.8	86.6	83.5	77.2	71.7	64.7	61.6						
1000	86.8	87.7	87.7	85.2	86.0	86.7	86.4	83.8	84.0	81.5	85.6	83.0	86.6	83.5	80.3	74.0	68.5	61.4	58.1						
1250	83.6	84.5	84.5	82.0	82.8	83.5	83.3	80.7	80.5	78.4	82.0	79.5	83.2	80.0	76.8	70.6	65.0	57.5	54.1						
1500	80.1	81.1	81.0	78.6	79.4	80.1	79.9	77.3	76.9	75.4	78.2	76.1	79.4	76.2	73.5	67.2	61.1	53.1	49.5						
2000	76.3	77.3	77.3	74.9	75.7	76.3	76.2	73.6	73.6	72.2	74.0	72.9	75.6	73.0	70.1	63.6	56.8	48.7	45.0						
2500	72.2	73.1	73.1	70.7	71.5	72.2	72.0	70.0	70.1	68.8	70.4	69.1	71.6	68.9	66.1	59.5	51.7	43.4	39.3						
3150	67.6	68.5	68.5	66.0	66.9	67.5	67.4	65.8	65.9	64.6	66.2	65.0	67.4	64.3	61.4	54.8	45.9	36.3	31.0						
4000	62.3	63.3	63.3	60.8	61.7	62.3	62.1	61.2	61.3	60.1	61.7	60.4	62.8	59.5	56.3	49.3	39.6	27.3	19.8						
5000	56.5	57.3	57.3	54.8	55.7	56.4	56.1	55.1	55.2	55.0	56.5	55.3	57.8	54.3	50.9	42.9	29.9	15.1	6.9						
6300	50.9	50.3	50.2	47.9	49.5	50.3	50.3	50.5	50.7	49.6	51.1	49.8	52.6	48.5	44.6	35.9	19.6	2.9							
8000	44.8	43.4	43.0	42.8	44.6	44.3	45.4	46.0	46.0	45.0	46.6	45.2	47.9	43.6	39.5	29.9	7.1								
10000	37.5	37.1	37.0	36.8	39.2	38.7	39.4	40.0	40.6	39.5	40.8	39.6	42.4	37.8	33.0	22.1									
12500	28.1	30.0	30.0	30.6	32.7	32.0	33.3	34.6	35.2	33.9	35.5	34.1	36.7	31.2	27.0	10.4									
16000	14.6	20.8	21.2	22.7	26.1	24.1	26.7	28.2	28.4	27.5	29.1	26.9	30.4	23.3	17.2										
20000	1.0	8.6	9.0	10.7	16.0	12.1	16.6	19.1	19.2	19.0	20.9	17.1	20.4	13.2	7.4										
25000					5.9	.2	6.5	7.6	7.6	7.6	8.5	7.3	7.2	3.1											

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										IDENTIFICATION:										
(F-8 AIRCRAFT )										) OMEGA 8.2										
(ENG. J57-P-20 )										) TEST 77-527-001										
(GROUND RUNUP )										) RUN 02										
(OPERATION: )										) AIRCRAFT CODE 527										
(ENGINE RUNUP, 70% RPM )										) OPERATION CODE 01021										
(F-8 )										) PROFILE VERSION A										
(SINGLE ENGINE )										) 02 NOV 77										
(EST. F-100D +0.508 )										) DELTA N = .5 DB										
										) PAGE E2										
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	107.3	108.2	107.8	104.9	105.6	107.6	106.1	104.4	104.9	102.8	108.1	104.6	108.2	104.9	100.9	94.3	89.8	82.9	80.5	
250	104.9	105.8	105.5	102.6	103.4	105.2	103.8	102.1	102.6	100.5	105.7	102.3	105.9	102.6	98.6	92.0	87.5	80.5	78.1	
315	102.5	103.4	103.2	100.3	101.1	102.8	101.5	99.7	100.2	98.1	103.3	99.9	103.5	100.2	96.2	89.5	85.0	78.1	75.7	
400	99.9	100.9	100.8	97.9	98.6	100.3	99.1	97.2	97.7	95.6	100.8	97.5	101.0	97.7	93.8	87.0	82.4	75.5	73.1	
500	97.3	98.2	98.3	95.3	96.1	97.7	96.6	94.6	95.1	93.0	98.2	94.8	98.4	95.1	91.1	84.4	79.8	72.8	70.4	
630	94.4	95.5	95.6	92.7	93.5	94.8	94.0	91.8	92.3	90.2	95.4	92.0	95.6	92.3	88.3	81.6	77.0	70.0	67.6	
800	91.5	92.7	92.8	89.9	90.7	92.0	91.2	88.8	89.3	87.2	92.3	89.1	92.6	89.3	85.3	78.6	74.0	67.0	64.5	
1000	88.6	89.7	89.9	86.9	87.8	89.0	88.3	85.8	86.1	84.0	89.1	85.9	89.4	86.1	82.2	75.4	70.8	63.7	60.9	
1250	85.4	86.5	86.7	83.7	84.6	85.8	85.1	82.6	82.6	80.9	85.6	82.4	85.9	82.6	78.7	71.9	67.3	59.8	57.0	
1600	81.9	83.0	83.2	80.3	81.2	82.4	81.7	79.2	79.0	77.9	81.7	79.0	82.2	78.9	75.4	68.5	63.3	55.3	52.4	
2000	78.1	79.3	79.5	76.6	77.5	78.7	78.0	75.5	75.8	74.7	77.6	75.8	78.3	75.6	72.0	64.9	59.0	51.0	47.8	
2500	74.0	75.1	75.3	72.4	73.3	74.5	73.9	72.0	72.2	71.3	74.0	72.1	74.4	71.6	67.9	60.8	53.9	45.7	42.1	
3150	69.4	70.5	70.7	67.8	68.7	69.9	69.2	67.7	68.0	67.1	69.8	67.9	70.2	67.0	63.3	56.2	48.1	38.6	33.8	
4000	63.8	64.8	65.0	62.2	63.1	64.2	63.6	62.8	63.0	62.1	64.5	62.7	65.1	61.7	57.8	50.4	41.3	29.1	22.0	
5000	57.5	58.5	58.7	55.8	56.8	57.8	57.2	56.3	57.5	56.5	58.6	57.1	59.5	55.9	52.0	43.7	31.2	16.4	8.6	
6300	51.6	51.1	51.1	48.6	50.2	51.2	51.1	50.3	51.6	50.6	52.5	50.9	53.7	49.6	45.4	36.4	20.5	3.8		
8000	45.2	43.8	43.4	43.2	45.0	44.8	45.8	46.4	46.4	45.5	47.3	45.8	48.5	44.1	39.9	30.2	7.5			
10000	37.5	37.1	37.0	36.8	39.2	38.7	39.4	40.0	40.6	39.5	40.8	39.6	42.4	37.8	33.0	22.1				
12500	28.1	30.0	30.0	30.6	32.7	32.0	33.3	34.6	35.2	33.9	35.5	34.1	36.7	31.2	27.0	10.4				
16000	14.6	20.8	21.2	22.7	26.1	24.1	26.7	28.2	28.4	27.5	29.1	26.9	30.4	23.3	17.2					
20000	1.0	8.6	9.0	10.7	16.0	12.1	16.6	19.1	19.2	19.0	20.9	17.1	20.4	13.2	7.4					
25000					5.9	.2	6.5	7.6	7.6	7.6	8.5	7.3	7.2	3.1						

TABLE: A-WEIGHTED OVERALL SOUND LVL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-8 AIRCRAFT																			
(ENG. J57-P-20																			
(GROUND RUNUP																			
(OPERATION:																			
(ENGINE RUNUP, 70% RPM																			
(F-8																			
(SINGLE ENGINE																			
(EST. F-1000 +0.50B																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = .5 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 77-527-001																			
RUN 02																			
AIRCRAFT CODE 527																			
OPERATION CODE 01021																			
PROFILE VERSION A																			
02 NOV 77																			
PAGE F2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	91.3	91.9	91.2	88.6	89.3	90.5	89.0	87.4	87.0	85.4	88.6	86.4	90.0	86.3	83.1	77.3	70.6	64.0	61.1
250	89.1	89.6	89.0	86.6	87.1	88.3	86.8	85.2	85.4	83.2	86.3	84.2	87.8	84.1	80.9	75.1	68.4	61.8	59.0
315	86.7	87.3	86.6	84.2	84.8	85.9	84.5	83.0	83.1	81.0	84.0	82.0	85.6	81.8	78.7	72.9	66.2	59.6	56.8
400	84.3	84.9	84.2	81.8	82.4	83.6	82.2	80.7	80.8	78.8	81.7	79.7	83.3	79.5	76.4	70.6	63.9	57.4	54.5
500	81.8	82.3	81.7	79.4	79.9	81.1	79.8	78.3	78.4	76.5	79.2	77.4	80.9	77.2	74.1	68.3	61.6	55.0	52.2
630	79.2	79.7	79.1	76.8	77.4	78.5	77.3	75.9	76.0	74.1	76.7	75.0	78.5	74.8	71.7	65.9	59.1	52.6	49.8
800	76.5	76.9	76.4	74.1	74.7	75.8	74.8	73.4	73.6	71.7	74.2	72.6	76.1	72.3	69.2	63.4	56.6	50.1	47.3
1000	73.7	74.0	73.5	71.3	72.0	73.1	72.1	70.8	71.1	69.3	71.5	70.1	73.5	69.7	66.6	60.9	54.0	47.5	44.7
1250	70.7	71.0	70.5	68.4	69.1	70.1	69.3	68.2	68.4	66.8	68.8	67.5	70.9	67.1	64.0	58.3	51.2	44.8	42.0
1500	67.6	67.8	67.3	65.4	66.1	67.1	66.4	65.5	65.8	64.2	66.0	64.9	68.2	64.3	61.2	55.5	48.2	41.9	39.1
2000	64.4	64.4	64.0	62.2	63.0	63.9	63.4	62.7	63.1	61.6	63.3	62.2	65.5	61.5	58.4	52.6	45.0	38.7	36.0
2500	60.9	60.8	60.4	58.8	59.6	60.5	60.0	59.6	60.0	58.8	60.2	59.2	62.5	58.4	55.2	49.6	41.5	35.3	32.6
3150	57.3	57.0	56.6	55.2	56.0	56.9	56.4	56.1	56.6	55.5	56.8	55.8	59.2	55.0	51.8	46.2	37.8	31.6	28.9
4000	53.4	53.0	52.5	51.3	52.0	53.0	52.4	52.3	52.9	51.9	53.1	52.2	55.7	51.2	48.0	42.6	33.8	27.5	24.9
5000	49.2	48.6	48.1	47.0	47.6	48.8	48.1	48.1	48.8	47.7	48.9	48.0	51.6	47.1	43.8	38.6	29.5	23.2	20.6
6300	44.6	44.0	43.4	42.4	43.0	44.2	43.5	43.7	44.4	43.4	44.5	43.7	47.3	42.6	39.4	34.2	24.9	18.6	16.0
8000	39.9	39.4	38.9	38.3	39.0	39.9	39.5	40.0	40.7	39.8	40.9	39.9	43.3	38.9	35.6	30.2	21.1	15.0	12.4
10000	34.6	34.6	34.2	33.8	34.8	35.3	35.4	36.0	36.6	35.9	36.9	35.7	39.0	34.8	31.6	25.8	17.2	11.2	8.7
12500	28.9	29.5	29.3	29.1	30.3	30.4	31.0	31.7	32.2	31.6	32.6	31.3	34.3	30.3	27.2	21.1	13.3	7.4	4.8
16000	22.8	23.9	23.9	24.0	25.4	25.1	26.2	26.9	27.3	26.9	27.8	26.4	29.2	25.5	22.6	16.3	9.4	3.5	.9
20000	16.2	17.9	18.1	18.4	20.0	19.4	20.9	21.7	22.0	21.6	22.6	21.1	23.7	20.3	17.6	11.4	5.7		
25000	9.3	11.5	11.7	12.3	14.0	13.3	15.1	15.9	16.1	15.7	16.7	15.3	17.6	14.7	12.4	6.7	2.3		

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																					
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																					
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:	
(F-3 AIRCRAFT)) TEMP = 59 F) OMEGA 0.2	
(ENG. J57-P-20)) BAR PRESS = 29.92 IN HG) TEST 77-527-001	
(GROUND RUNUP)) REL HUMID = 70 %) RUN 02	
()) DELTA N = .508) AIRCRAFT CODE 527	
())) OPERATION CODE 01021	
())) PROFILE VERSION A	
())) 02 NOV 77	
())) PAGE 62	
DISTANCE		ANGLE (DEGREES)																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180		
200	93.1	93.9	93.4	90.6	91.1	92.9	90.9	89.3	89.7	87.9	92.1	89.3	92.8	89.0	85.0	78.6	72.8	66.3	64.0		
250	90.9	91.6	91.2	88.3	88.9	90.6	88.7	87.1	87.5	85.7	89.8	87.1	90.6	86.8	82.8	76.4	70.6	64.1	61.8		
315	88.5	89.3	89.8	86.0	86.6	88.3	86.4	84.9	85.2	83.5	87.5	84.9	88.3	84.5	80.6	74.2	68.4	61.9	59.6		
400	86.1	86.8	86.4	83.6	84.2	85.9	84.1	82.6	82.9	81.3	85.2	82.6	86.0	82.2	78.3	72.0	66.1	59.6	57.3		
500	83.6	84.3	83.9	81.1	81.7	83.4	81.7	80.2	80.6	79.0	82.8	80.3	83.7	79.9	76.0	69.6	63.8	57.3	55.0		
630	81.0	81.7	81.3	78.5	79.2	80.9	79.2	77.8	78.2	76.6	80.3	77.9	81.3	77.4	73.5	67.3	61.3	54.9	52.6		
800	78.3	78.9	78.6	75.8	76.5	78.2	76.6	75.3	75.7	74.2	77.7	75.5	78.8	75.0	71.1	64.8	58.8	52.4	50.1		
1000	75.5	76.0	75.7	73.0	73.8	75.4	73.9	72.8	73.2	71.8	75.1	73.0	76.3	72.4	68.5	62.3	56.2	49.8	47.5		
1250	72.6	73.0	72.7	70.1	70.9	72.5	71.1	70.1	70.6	69.3	72.3	70.5	73.7	69.7	65.9	59.6	53.4	47.0	44.8		
1500	69.4	69.7	69.6	67.1	67.9	69.4	68.2	67.4	67.9	66.7	69.6	67.8	71.0	67.0	63.1	56.9	50.4	44.1	41.9		
2000	66.2	66.4	66.2	63.9	64.8	66.3	65.2	64.6	65.2	64.1	66.8	65.2	68.3	64.2	60.3	54.0	47.2	41.0	38.8		
2500	62.7	62.8	62.6	60.6	61.4	62.9	61.9	61.5	62.2	61.3	63.7	62.1	65.3	61.1	57.1	50.9	43.8	37.6	35.5		
3150	59.1	59.0	58.8	56.9	57.8	59.3	58.2	58.1	58.8	58.0	60.3	58.8	62.0	57.7	53.7	47.6	40.0	33.8	31.8		
4000	54.8	54.5	54.3	52.6	53.4	54.9	53.9	53.9	54.6	53.9	55.9	54.5	57.9	53.4	49.5	43.7	36.5	29.3	27.2		
5000	50.3	49.8	49.4	48.0	48.7	50.2	49.2	49.3	50.1	49.2	51.0	49.8	53.3	48.7	44.9	39.4	30.8	24.5	22.2		
6300	45.3	44.7	44.2	43.1	43.7	45.2	44.2	44.5	45.3	44.4	45.9	44.8	48.4	43.7	40.1	34.8	25.8	19.5	17.2		
8000	40.2	39.8	39.3	38.6	39.4	40.4	39.9	40.4	41.1	40.3	41.6	40.4	43.9	39.4	36.0	30.4	21.6	15.4	13.0		
10000	34.6	34.6	34.2	33.8	34.8	35.3	35.4	36.0	36.6	35.9	36.9	35.7	39.0	34.8	31.6	25.8	17.2	11.2	8.7		
12500	28.9	29.5	29.3	29.1	30.3	30.4	31.0	31.7	32.2	31.6	32.6	31.3	34.3	30.3	27.2	21.1	13.3	7.4	4.8		
16000	22.8	23.9	23.9	24.0	25.4	25.4	26.2	26.9	27.3	26.9	27.8	26.4	29.2	25.5	22.6	16.3	9.4	3.5	.9		
20000	16.2	17.9	18.1	18.4	20.0	19.4	20.9	21.7	22.0	21.6	22.6	21.1	23.7	20.3	17.6	11.4	5.7				
25000	9.3	11.5	11.7	12.3	14.0	13.3	15.1	15.9	16.1	15.7	16.7	15.3	17.6	14.7	12.4	6.7	2.3				

AD-A056 217

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 20/1
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)
MAR 78 J D SPEAKMAN, R G POWELL, R A LEE
AMRL-TR-73-110-VOL-6

UNCLASSIFIED

NL

4 OF 6

AD
A056217



(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (F-3 AIRCRAFT
 (ENG. J57-P-20
 (GROUND RUNUP
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 77-527-001
 (RUN 02
 (AIRCRAFT CODE 527
 (OPERATION CODE 01021
 (PROFILE VERSION A
 (02 NOV 77
 (PAGE J2
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = .5 DB
 (A=AL
 (P=PNLT
 (T=ALT

	10	20	30	40	50	60	70	80	90	100	110
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(OPERATION:) METEOROLOGY:) AIRCRAFT CODE 527																			
(MILITARY POWER, 97% RPM) TEMP = 59 F) OPERATION CODE 01004																			
(SINGLE ENGINE, F-8) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
(DEFLECTED FLOW) REL HUMID = 70 %) 02 NOV 77																			
(EST. F-100D +0.508) DELTA N = .5 DB) PAGE C1																			
GROUND RUNUP																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	79	79	81	80	83	82	83	85	87	86	88	91	95	100	103	104	97	91	84
63	82	83	83	84	84	85	85	88	89	90	90	94	98	104	107	106	99	93	86
80	84	84	84	86	84	85	87	88	90	90	92	96	101	108	110	109	102	96	89
100	86	87	87	86	87	88	89	90	91	94	95	100	105	112	112	109	103	96	89
125	89	89	90	89	88	91	91	93	95	96	99	105	110	116	116	112	105	99	92
160	90	91	91	90	91	92	94	94	96	98	101	107	113	118	119	113	106	99	93
200	90	90	90	91	91	93	94	96	98	101	105	110	117	118	112	105	99	92	92
250	89	89	88	90	90	91	92	94	96	96	100	104	109	114	117	111	104	98	91
315	91	91	90	93	92	93	93	95	98	100	102	107	112	114	118	112	105	98	92
400	94	94	93	95	94	95	96	97	100	102	105	109	113	116	116	109	102	96	89
500	91	89	89	93	92	93	94	96	98	101	103	107	110	113	113	104	97	91	84
630	90	89	90	92	91	92	94	96	99	100	103	106	109	112	113	104	97	91	84
800	89	88	89	93	92	93	95	97	99	102	103	107	110	109	110	99	93	86	79
1000	87	87	87	91	91	91	93	96	99	101	102	105	108	108	109	100	93	87	80
1250	85	85	85	90	89	90	92	94	97	100	100	103	106	104	106	97	90	84	77
1600	85	85	84	89	89	89	92	95	98	101	100	102	104	102	105	96	89	83	76
2000	86	88	87	88	88	89	93	95	99	100	99	101	103	101	104	96	89	83	76
2500	89	91	90	89	89	89	93	96	99	101	99	100	101	99	102	96	89	83	76
3150	85	86	86	86	85	87	91	93	96	98	97	97	97	99	99	93	87	80	73
4000	83	85	84	86	85	86	91	93	96	98	97	97	99	99	98	92	85	79	72
5000	82	84	84	84	84	85	90	91	94	96	96	97	99	96	96	90	83	76	70
6300	78	80	80	81	80	83	87	89	92	94	93	95	96	93	94	87	81	74	67
8000	76	78	78	79	79	82	86	88	92	93	94	94	94	92	93	85	79	72	65
10000	71	73	73	75	75	77	81	83	86	89	89	93	90	88	89	81	75	68	61
OVERALL	102	102	102	103	103	104	106	108	110	112	114	117	121	125	126	121	114	107	101
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

TABLE: PERCEIVED NOISE LEVEL (PNDB)																	IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	OMEGA 8.2	
NOISE SOURCE/SUBJECT:																	TEST 77-527-002	
F-3 AIRCRAFT																	RUN 01	
ENG. J57-P-20																	AIRCRAFT CODE 527	
GROUND RUNUP																	OPERATION CODE 01004	
																	BAR PRESS =29.92 IN HG	
																	PROFILE VERSION A	
																	REL HUMID = 70 %	
																	02 NOV 77	
																	PAGE 01	
DISTANCE																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>180
200	114.7	115.9	115.2	116.2	116.0	116.7	119.7	122.1	124.7	126.7	126.4	128.7	131.7	133.6	134.9	128.4	121.7	115.1
250	112.5	113.7	113.0	114.0	113.8	114.4	117.5	119.8	122.5	124.5	124.2	126.5	129.6	131.4	132.8	126.3	119.6	113.0
315	110.3	111.4	110.8	111.7	111.5	112.2	115.2	117.5	120.2	122.2	121.9	124.2	127.4	129.3	130.7	124.2	117.5	110.8
400	107.9	109.1	108.4	109.4	109.2	109.8	112.9	115.2	117.9	119.9	119.6	121.9	125.2	127.1	128.5	122.0	115.3	108.6
500	105.5	106.7	106.0	106.9	106.8	107.4	110.4	112.7	115.4	117.4	117.1	119.6	122.9	124.8	126.2	119.8	113.1	106.4
630	103.0	104.1	103.4	104.4	104.2	104.8	107.8	110.2	112.8	114.8	114.6	117.2	120.5	122.5	123.9	117.4	110.8	104.0
800	100.3	101.4	100.7	101.7	101.5	102.1	105.1	107.5	110.1	112.1	111.9	114.7	118.1	120.1	121.5	115.0	108.3	101.5
1000	97.5	98.5	97.9	98.9	98.7	99.3	102.3	104.6	107.3	109.3	109.1	112.1	115.5	117.6	118.9	112.5	105.8	98.9
1250	94.4	95.5	94.8	95.8	95.6	96.2	99.2	101.5	104.2	106.2	106.0	109.3	112.8	114.9	116.0	109.5	102.8	95.9
1600	91.1	92.1	91.4	92.7	92.4	93.0	95.9	98.2	100.9	102.9	102.9	106.5	110.0	112.1	113.0	106.4	99.6	92.8
2000	88.0	88.5	87.9	89.6	88.9	89.9	92.2	94.6	97.3	99.3	99.8	103.4	107.0	109.1	110.1	103.4	96.6	89.7
2500	84.2	84.5	83.8	85.8	85.1	86.0	88.3	90.6	93.4	95.3	96.0	99.6	103.3	105.3	106.3	99.5	92.7	85.7
3150	79.9	80.1	79.4	81.6	81.0	81.7	83.9	86.3	89.2	91.1	92.0	95.4	99.1	101.1	102.1	95.2	88.3	81.4
4000	75.1	75.0	74.6	77.2	76.5	77.5	79.7	81.8	84.5	86.6	87.7	91.0	94.4	96.4	97.6	90.3	83.4	76.5
5000	69.8	69.6	69.7	72.5	71.9	72.9	75.1	77.1	79.7	81.9	83.2	86.5	89.8	91.6	92.9	85.0	78.1	71.2
6300	64.7	64.4	64.5	67.5	66.8	67.9	70.1	72.1	74.7	77.0	78.3	81.6	85.0	86.7	88.0	79.9	73.0	66.0
8000	60.6	60.1	60.2	63.2	62.5	63.5	65.6	67.5	70.3	72.5	74.0	77.4	80.9	83.0	84.2	76.1	69.1	62.0
10000	56.0	55.2	55.4	58.8	58.0	58.7	60.8	62.8	65.6	67.6	69.4	73.1	76.7	79.0	80.1	72.1	65.1	57.8
12500	51.1	50.3	50.2	53.9	53.1	53.8	55.4	57.7	60.5	62.4	64.7	68.5	72.2	74.8	75.7	68.0	60.8	53.3
16000	45.6	44.4	44.2	48.5	47.5	48.4	49.9	52.2	54.8	57.0	59.5	63.5	67.4	70.1	71.0	63.6	56.1	48.4
20000	39.0	38.4	37.9	42.0	40.8	41.8	43.3	45.9	48.4	51.1	53.8	57.9	61.9	64.9	65.9	58.7	51.1	42.6
25000	31.5	30.4	29.9	33.9	32.7	33.9	35.9	38.4	41.1	44.0	47.2	51.6	56.3	59.6	60.3	53.3	45.0	35.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(F-3 AIRCRAFT)																
(ENG. J57-P-20)																
(GROUND RUNUP)																
OPERATION: MILITARY POWER, 97% RPM																
SINGLE ENGINE, F-8																
DEFLECTED FLOW																
EST. F-100D +0.508																
DELTA N = .5 DB																
PAGE E1																
IDENTIFICATION:																
OMEGA 8.2																
TEST 77-527-002																
RUN 01																
AIRCRAFT CODE 527																
OPERATION CODE 01004																
PROFILE VERSION A																
02 NOV 77																
PAGE E1																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	116.0	117.4	118.3	116.2	116.0	116.7	119.7	122.1	124.7	126.7	127.0	128.7	131.7	133.6	134.9	128.4
250	113.8	115.2	114.1	114.0	113.8	114.4	117.5	119.8	122.5	124.5	124.8	126.5	129.6	131.4	132.8	126.3
315	111.5	112.9	111.8	111.7	111.5	112.2	115.2	117.5	120.2	122.2	122.5	124.2	127.4	129.3	130.7	124.2
400	109.2	110.5	109.5	109.4	109.2	109.8	112.9	115.2	117.9	119.9	120.1	121.9	125.2	127.1	128.5	122.0
500	106.8	108.1	107.1	106.9	106.8	107.4	110.4	112.7	115.4	117.4	117.7	119.6	122.9	124.8	126.2	119.8
630	104.3	105.6	104.5	104.4	104.2	104.8	107.8	110.2	112.8	114.8	115.1	117.2	120.5	122.5	123.9	117.4
800	101.6	102.9	101.8	101.7	101.5	102.1	105.1	107.5	110.1	112.1	112.4	114.7	118.1	120.1	121.5	115.0
1000	98.7	100.0	99.0	98.9	98.7	99.3	102.3	104.6	107.3	109.3	109.6	112.1	115.5	117.6	118.9	112.5
1250	95.7	96.9	95.9	95.8	95.6	96.2	99.2	101.5	104.2	106.2	106.6	109.3	112.8	114.9	116.0	109.5
1600	92.4	93.6	92.5	92.7	92.4	93.0	95.9	98.2	100.9	102.9	103.5	106.5	110.0	112.1	113.0	106.4
2000	89.3	90.0	89.0	89.6	88.9	89.9	92.2	94.6	97.3	99.3	100.4	103.4	107.0	109.1	110.1	103.4
2500	85.4	86.0	84.9	85.8	85.1	86.0	88.3	90.6	93.4	95.3	96.6	99.6	103.3	105.3	106.3	99.5
3150	81.2	81.5	80.5	81.6	81.0	81.7	83.9	86.3	89.2	91.1	92.5	95.4	99.1	101.1	102.1	95.2
4000	76.1	76.1	75.4	77.2	76.5	77.5	79.7	81.8	84.5	86.6	88.2	91.0	94.4	96.4	97.6	90.3
5000	70.6	70.5	70.3	72.5	71.9	72.9	75.1	77.1	79.7	81.9	83.5	86.5	89.8	91.6	92.9	85.0
6300	65.2	64.9	64.9	67.5	66.8	67.9	70.1	72.1	74.7	77.0	78.6	81.6	85.0	86.7	88.0	79.9
8000	60.8	60.3	60.4	63.2	62.5	63.5	65.6	67.5	70.3	72.5	74.1	77.4	80.9	83.0	84.2	76.1
10000	56.0	55.2	55.4	58.8	58.0	58.7	60.8	62.8	65.6	67.6	69.4	73.1	76.7	79.0	80.1	72.1
12500	51.1	50.3	50.2	53.9	53.1	53.8	55.4	57.7	60.5	62.4	64.7	68.5	72.2	74.8	75.7	68.0
16000	45.6	44.4	44.2	48.5	47.5	48.4	49.9	52.2	54.8	57.0	59.5	63.5	67.4	70.1	71.0	63.6
20000	39.0	38.4	37.9	42.0	40.8	41.8	43.3	45.9	48.4	51.1	53.8	57.9	61.9	64.9	65.9	58.7
25000	31.5	30.4	29.9	33.9	32.7	33.9	35.9	38.4	41.1	44.0	47.2	51.6	56.3	59.6	60.3	53.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-3 AIRCRAFT																			
ENG. J57-P-20																			
GROUND RUNUP																			
(OPERATIONS:																			
(MILITARY POWER, 97% KPM																			
(SINGLE ENGINE, F-8																			
(DEFLECTED FLOW																			
(EST. F=1000 +0.508																			
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS =29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = .5 DB																			
) AIRCRAFT CODE 527																			
) OPERATION CODE 01004																			
) PROFILE VERSION A																			
) 02 NOV 77																			
) PAGE F1																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 77-527-002																			
) RUN 01																			
) ANGLE (DEGREES)																			
) DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	100.7	101.2	100.7	103.0	102.5	103.2	106.0	108.3	111.2	113.2	113.5	116.2	119.2	120.6	121.9	114.5	107.8	101.2	94.5
250	98.5	99.0	98.6	100.9	100.4	101.1	103.8	106.2	109.0	111.0	111.3	114.1	117.1	118.6	119.9	112.4	105.8	99.1	92.4
315	96.4	96.8	96.4	98.7	98.2	98.9	101.6	104.0	106.8	108.8	109.2	112.0	115.0	116.5	117.8	110.4	103.7	97.0	90.4
400	94.2	94.5	94.1	96.5	96.0	96.7	99.4	101.7	104.5	106.6	106.9	109.8	112.9	114.4	115.7	108.2	101.6	94.9	88.2
500	91.9	92.2	91.9	94.3	93.8	94.4	97.1	99.4	102.2	104.2	104.7	107.6	110.7	112.2	113.5	106.1	99.4	92.7	86.1
630	89.6	89.9	89.5	92.0	91.5	92.1	94.7	97.0	99.8	101.9	102.4	105.3	108.5	110.0	111.3	103.8	97.1	90.5	83.8
800	87.3	87.4	87.1	89.7	89.1	89.8	92.3	94.6	97.4	99.4	100.0	103.0	106.2	107.7	109.0	101.5	94.8	88.2	81.5
1000	84.8	84.9	84.6	87.3	86.7	87.3	89.8	92.1	94.9	96.9	97.6	100.7	103.9	105.4	106.7	99.1	92.4	85.8	79.1
1250	82.3	82.3	82.0	84.7	84.1	84.8	87.2	89.5	92.3	94.3	95.1	98.2	101.5	102.9	104.1	96.5	89.8	83.2	76.5
1600	79.7	79.6	79.3	82.2	81.5	82.2	84.5	86.8	89.6	91.6	92.5	95.7	99.0	100.4	101.5	93.8	87.1	80.4	73.8
2000	77.0	76.7	76.5	79.5	78.8	79.5	81.7	84.0	86.7	88.8	89.9	93.1	96.4	97.8	98.8	91.0	84.3	77.6	71.0
2500	73.9	73.5	73.4	76.5	75.8	76.5	78.7	80.9	83.7	85.7	86.9	90.1	93.4	94.7	95.7	87.7	81.0	74.3	67.7
3150	70.5	70.0	70.0	73.2	72.5	73.3	75.4	77.6	80.4	82.4	83.7	86.9	90.1	91.4	92.4	84.1	77.4	70.7	64.1
4000	66.7	66.1	66.2	69.6	68.9	69.7	71.8	74.0	76.7	78.8	80.1	83.3	86.5	87.6	88.6	80.1	73.4	66.8	60.1
5000	62.5	61.8	62.0	65.6	64.9	65.6	67.7	69.9	72.7	74.8	76.1	79.2	82.4	83.5	84.4	75.7	69.0	62.4	55.7
6300	58.0	57.3	57.0	61.2	60.5	61.2	63.3	65.5	68.3	70.4	71.7	74.9	78.1	79.1	80.0	71.2	64.5	57.8	51.2
8000	54.1	53.3	53.6	57.2	56.5	57.3	59.3	61.4	64.1	66.2	67.7	71.0	74.2	75.4	76.3	67.5	60.9	54.2	47.5
10000	50.0	49.1	49.4	52.9	52.1	52.9	54.8	56.9	59.5	61.6	63.4	66.7	70.0	71.4	72.2	63.7	57.0	50.3	43.7
12500	45.4	44.5	44.8	48.3	47.4	48.2	50.0	52.1	54.6	56.7	58.6	62.0	65.4	67.0	67.9	59.5	52.8	46.1	39.5
16000	40.5	39.6	39.8	43.1	42.3	43.1	44.7	46.8	49.2	51.3	53.5	56.9	60.4	62.3	63.1	55.0	48.3	41.7	35.0
20000	35.1	34.2	34.3	37.5	36.6	37.4	39.0	41.0	43.4	45.5	47.7	51.3	54.9	57.1	58.0	50.2	43.5	36.9	30.2
25000	29.3	28.3	28.3	31.4	30.5	31.3	32.7	34.6	37.0	39.1	41.5	45.2	49.0	51.5	52.4	45.1	38.4	31.8	25.1
* SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-3 AIRCRAFT																			
(ENG. J57-P-20																			
(GROUND RUNUP																			
(OPERATIONS:																			
(MILITARY POWER, 97% RPM																			
(SINGLE ENGINE, F-8																			
(DEFLECTED FLOW																			
(EST. F-1000 +0.50B																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS =29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = .5 DB																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	101.9	102.6	101.8	103.0	102.5	103.2	106.0	108.3	111.2	113.2	114.0	116.2	119.2	120.6	121.9	114.5	107.8	101.2	94.5
250	99.8	100.4	99.7	100.9	100.4	101.1	103.8	106.2	109.0	111.0	111.9	114.1	117.1	118.6	119.9	112.4	105.8	99.1	92.4
315	97.6	98.2	97.5	98.7	98.2	98.9	101.6	104.0	106.8	108.8	109.7	112.0	115.0	116.5	117.8	110.4	103.7	97.0	90.4
400	95.4	96.0	95.2	96.5	96.0	96.7	99.4	101.7	104.5	106.6	107.5	109.8	112.9	114.4	115.7	108.2	101.6	94.9	88.2
500	93.2	93.7	92.9	94.3	93.8	94.4	97.1	99.4	102.2	104.2	105.2	107.6	110.7	112.2	113.5	106.1	99.4	92.7	86.1
630	90.9	91.3	90.6	92.0	91.5	92.1	94.7	97.0	99.8	101.9	102.9	105.3	108.5	110.0	111.3	103.8	97.1	90.5	83.8
800	88.5	88.9	88.2	89.7	89.1	89.8	92.3	94.6	97.4	99.4	100.6	103.0	106.2	107.7	109.0	101.5	94.8	88.2	81.5
1000	86.1	86.4	85.7	87.3	86.7	87.3	89.8	92.1	94.9	96.9	96.2	100.7	103.9	105.4	106.7	99.1	92.4	85.8	79.1
1250	83.6	83.8	83.1	84.7	84.1	84.8	87.2	89.5	92.3	94.3	95.7	98.2	101.5	102.9	104.1	96.5	89.8	83.2	76.5
1600	81.0	81.0	80.4	82.2	81.5	82.2	84.5	86.8	89.6	91.6	93.1	95.7	99.0	100.4	101.5	93.8	87.1	80.4	73.8
2000	78.3	78.2	77.6	79.5	78.8	79.5	81.7	84.0	86.7	88.8	90.4	93.1	96.4	97.8	98.8	91.0	84.3	77.6	71.0
2500	75.1	75.0	74.5	76.5	75.8	76.5	78.7	80.9	83.7	85.7	87.4	90.1	93.4	94.7	95.7	87.7	81.0	74.3	67.7
3150	71.7	71.5	71.1	73.2	72.5	73.3	75.4	77.6	80.4	82.4	84.2	86.9	90.1	91.4	92.4	84.1	77.4	70.7	64.1
4000	67.7	67.3	67.1	69.6	68.9	69.7	71.8	74.0	76.7	78.8	80.5	83.3	86.5	87.6	88.6	80.1	73.4	66.8	60.1
5000	63.2	62.7	62.7	65.6	64.9	65.6	67.7	69.9	72.7	74.8	76.4	79.2	82.4	83.5	84.4	75.7	69.0	62.4	55.7
6300	58.5	57.9	58.0	61.2	60.5	61.2	63.3	65.5	68.3	70.4	71.9	74.9	78.1	79.1	80.0	71.2	64.5	57.8	51.2
8000	54.4	53.6	53.9	57.2	56.5	57.3	59.3	61.4	64.1	66.2	67.8	71.0	74.2	75.4	76.3	67.5	60.9	54.2	47.5
10000	50.0	49.1	49.4	52.9	52.1	52.9	54.8	56.9	59.5	61.6	63.4	66.7	70.0	71.4	72.2	63.7	57.0	50.3	43.7
12500	45.4	44.5	44.8	48.3	47.4	48.2	50.0	52.1	54.6	56.7	58.6	62.0	65.4	67.0	67.9	59.5	52.8	46.1	39.5
16000	40.5	39.6	39.8	43.1	42.3	43.1	44.7	46.8	49.2	51.3	53.5	56.9	60.4	62.3	63.1	55.0	48.3	41.7	35.0
20000	35.1	34.2	34.3	37.5	36.6	37.4	39.0	41.0	43.4	45.5	47.7	51.3	54.9	57.1	58.0	50.2	43.5	36.9	30.2
25000	29.3	28.3	28.3	31.4	30.5	31.3	32.7	34.6	37.0	39.1	41.5	45.2	49.0	51.5	52.4	45.1	38.4	31.8	25.1
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:
 OMEGA 8.2
 TEST 77-527-002
 RUN 01
 AIRCRAFT CODE 527
 OPERATION CODE 01004
 PROFILE VERSION A
 02 NOV 77
 PAGE J1

NOISE SOURCE/SUBJECT:
 F-9 AIRCRAFT
 ENG. J57-P-20
 GROUND RUNUP

OPERATION:
 MILITARY POWER, 97% RPM
 SINGLE ENGINE, F-8
 DEFLECTED FLOW
 EST. F-1000 +0.508

METEOROLOGY:
 TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = .5 DB

DISTANCE = 250 FEET

	A=ALT										
	T=ALT										
	P=PNLT										
	40	50	60	70	80	90	100	110	120	130	140
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
>160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										IDENTIFICATION:										
(F-3 AIRCRAFT )										) OMEGA 8.2										
(ENG. J57-P-20 )										) TEST 77-527-002										
(GROUND RUNUP )										) RUN 02										
(OPERATION: )										) AIRCRAFT CODE 527										
(AFTERBURNER, MAX POWER )										) OPERATION CODE 01003										
(SINGLE ENGINE, F-8 )										) PROFILE VERSION A										
(DEFLECTED FLOW )										) 02 NOV 77										
(EST. F-1000 +0.508 )										) DELTA N = .5 DB										
										) PAGE D2										
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	118.5	119.9	119.0	120.7	123.6	127.1	124.4	130.2	132.0	135.2	137.6	141.5	144.7	144.8	140.8	137.0	117.5	107.5	97.3	
250	116.3	117.8	116.8	118.5	121.4	124.9	122.2	128.0	129.8	133.0	135.4	139.3	142.5	142.7	138.7	134.9	115.3	105.3	95.1	
315	114.0	115.5	114.6	116.2	119.1	122.7	120.0	125.7	127.5	130.7	133.1	137.1	140.2	140.5	136.6	132.8	113.2	103.1	92.9	
400	111.7	113.2	112.3	114.0	116.8	120.3	117.7	123.4	125.2	128.4	130.8	134.8	138.0	138.3	134.4	130.6	110.9	100.8	90.5	
500	109.3	110.8	109.9	111.7	114.4	117.9	115.3	120.9	122.8	125.9	128.4	132.4	135.7	136.0	132.1	128.3	108.6	98.5	88.1	
630	106.8	108.3	107.3	109.3	111.9	115.4	112.7	118.4	120.2	123.4	125.8	129.9	133.3	133.7	129.8	126.0	106.2	96.0	85.6	
800	104.2	105.6	104.7	106.8	109.3	112.7	110.1	115.7	117.6	120.7	123.2	127.3	130.8	131.2	127.4	123.6	103.6	93.4	82.9	
1000	101.5	102.8	101.9	104.2	106.7	109.9	107.5	112.9	114.8	117.9	120.5	124.6	128.3	128.7	124.8	121.1	100.9	90.6	80.1	
1250	98.8	99.8	98.9	101.5	104.0	106.9	104.7	109.9	111.9	114.9	117.6	121.7	125.6	126.0	122.0	118.3	98.0	87.6	77.2	
1500	95.9	96.5	95.7	98.6	101.1	103.7	101.8	106.7	108.7	111.8	114.4	118.6	122.7	123.1	119.1	115.5	94.9	84.5	74.0	
2000	92.8	92.9	92.6	95.5	98.0	100.4	98.7	103.2	105.3	108.4	111.1	115.6	119.7	120.2	116.2	112.6	91.8	81.3	70.9	
2500	89.0	88.9	88.7	91.7	94.2	96.6	94.9	99.5	101.5	104.6	107.4	112.2	116.0	116.4	112.4	108.8	89.0	78.6	67.1	
3150	84.7	84.5	84.8	88.1	90.9	92.9	90.9	95.7	97.3	100.6	103.6	108.6	112.1	112.5	108.4	104.9	84.2	73.8	63.2	
4000	79.9	79.9	80.5	83.8	85.6	86.6	86.7	91.4	93.0	96.4	99.6	104.4	107.9	108.3	104.1	100.6	79.8	69.4	58.6	
5000	74.7	75.1	75.7	79.1	80.9	83.9	81.9	86.7	88.3	91.6	95.1	99.7	103.2	103.6	99.4	95.9	75.1	64.5	53.4	
6300	69.6	69.9	70.6	74.2	75.9	78.9	77.0	81.7	83.3	86.7	90.2	94.8	98.4	98.7	94.5	91.0	70.1	59.4	47.6	
8000	65.7	65.8	66.5	70.1	71.8	74.7	72.8	77.5	79.1	82.4	85.9	90.7	94.4	94.8	90.7	87.2	66.0	55.0	42.7	
10000	61.3	61.2	62.0	65.8	67.3	70.2	68.4	72.9	74.5	77.9	81.2	86.4	90.1	90.6	86.6	83.1	61.6	50.2	38.6	
12500	56.7	56.3	57.1	60.9	62.4	65.2	63.6	68.0	69.6	73.0	76.2	81.6	85.5	86.0	82.2	78.6	56.6	44.4	30.0	
16000	51.4	50.6	51.5	55.4	56.9	59.7	58.1	62.5	64.1	67.6	70.8	76.5	80.5	81.1	77.3	73.8	51.2	37.7	20.8	
20000	45.8	44.7	45.2	49.4	51.2	53.6	51.9	56.4	58.0	61.5	65.2	70.7	74.9	75.6	72.1	68.4	44.9	29.7	7.6	
25000	39.2	38.1	38.2	42.3	44.7	46.9	45.8	49.5	51.4	54.7	58.9	64.2	69.4	70.2	66.8	63.1	37.5	18.3		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-3 AIRCRAFT)																			
(ENG. J57-P-20)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(AFTERBURNER, MAX POWER)																			
(SINGLE ENGINE, F-8)																			
(DEFLECTED FLOW)																			
(EST. F-1000 +0.508)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS =29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = .5 DB)																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 77-527-002																			
AIRCRAFT CODE 527																			
OPERATION CODE 01003																			
PROFILE VERSION A																			
02 NOV 77																			
PAGE E2																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	119.7	121.7	119.0	121.8	123.6	128.2	124.4	130.2	132.0	135.2	137.6	142.7	146.0	146.2	142.0	138.5	117.5	107.5	97.3
250	117.5	119.5	116.8	119.6	121.4	126.0	122.2	128.0	129.8	133.0	135.4	140.5	143.8	144.0	139.9	136.4	115.3	105.3	95.1
315	115.3	117.3	114.6	117.3	119.1	123.8	120.0	125.7	127.5	130.7	133.1	138.3	141.5	141.9	137.8	134.2	113.2	103.1	92.9
400	113.0	115.0	112.3	115.1	116.8	121.4	117.7	123.4	125.2	128.4	130.8	136.0	139.3	139.6	135.6	132.0	110.9	100.8	90.5
500	110.6	112.5	109.9	112.8	114.4	119.0	115.3	120.9	122.8	125.9	128.4	133.6	137.0	137.4	133.3	129.8	108.6	98.5	88.1
630	108.1	110.0	107.3	110.4	111.9	116.5	112.7	118.4	120.2	123.4	125.8	131.1	134.6	135.0	131.0	127.5	106.2	96.0	85.6
800	105.4	107.4	104.7	107.9	109.3	113.8	110.1	115.7	117.6	120.7	123.2	128.5	132.1	132.5	128.6	125.1	103.6	93.4	82.9
1000	102.8	104.6	101.9	105.3	106.7	111.0	107.5	112.9	114.8	117.9	120.5	125.8	129.6	130.0	126.0	122.5	100.9	90.6	80.1
1250	100.1	101.5	98.9	102.6	104.0	108.0	104.7	109.9	111.9	114.9	117.6	122.9	126.9	127.3	123.2	119.9	98.0	87.6	77.2
1600	97.2	98.2	95.7	99.7	101.1	104.8	101.8	106.7	108.7	111.8	114.4	119.8	124.0	124.5	120.3	117.0	94.9	84.5	74.0
2000	94.1	94.7	92.6	96.6	98.0	101.5	98.7	103.2	105.3	108.4	111.1	116.7	121.0	121.5	117.4	114.0	91.8	81.3	70.9
2500	90.3	90.7	88.7	92.9	94.2	97.7	94.9	99.5	101.5	104.6	107.4	113.4	117.3	117.8	113.6	110.3	88.0	77.6	67.1
3150	86.0	86.2	84.8	89.2	89.9	94.0	90.9	95.7	97.3	100.6	103.6	109.8	113.4	113.8	109.6	106.3	84.2	73.8	63.2
4000	80.9	81.3	80.5	84.7	85.6	89.5	86.7	91.4	93.0	96.4	99.6	105.3	108.9	109.3	105.1	101.8	79.8	69.4	58.6
5000	75.5	76.1	75.7	79.8	80.9	84.5	81.9	86.7	88.3	91.6	95.1	100.4	104.0	104.4	100.2	96.8	75.1	64.5	53.4
6300	70.2	70.7	70.6	74.6	75.9	79.3	77.0	81.7	83.3	86.7	90.2	95.3	98.9	99.3	95.0	91.6	70.1	59.4	47.6
8000	65.9	66.1	66.5	70.3	71.8	74.9	72.8	77.5	79.1	82.4	85.9	91.0	94.7	95.1	91.0	87.5	66.0	55.0	42.7
10000	61.3	61.2	62.0	65.8	67.3	70.2	68.4	72.9	74.5	77.9	81.2	86.4	90.1	90.6	86.6	83.1	61.6	50.2	36.6
12500	56.7	56.3	57.1	60.9	62.4	65.2	63.6	68.0	69.6	73.0	76.2	81.6	85.5	86.0	82.2	78.6	56.6	44.4	30.0
16000	51.4	50.6	51.5	55.4	56.9	59.7	58.1	62.5	64.1	67.6	70.8	76.5	80.5	81.1	77.3	73.8	51.2	37.7	20.8
20000	45.8	44.7	45.2	49.4	51.2	53.6	51.9	56.4	58.0	61.5	65.2	70.7	74.9	75.6	72.1	68.4	44.9	29.7	7.6
25000	39.2	38.1	38.2	42.3	44.7	46.9	45.8	49.5	51.4	54.7	58.9	64.2	69.4	70.2	66.8	63.1	37.5	18.3	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-3 AIRCRAFT)																			
(ENG. J57-P-20)																			
(GROUND RUNUP)																			
(EST. F-1000 +0.508)																			
(OPERATION:)																			
(AFTERBURNER, MAX POWER)																			
(SINGLE ENGINE, F-8)																			
(DEFLECTED FLOW)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS =29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = .5 DB)																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 77-527-002																			
) RUN 02																			
) AIRCRAFT CODE 527																			
) OPERATION CODE 01003																			
) PROFILE VERSION A																			
) 02 NOV 77																			
) PAGE F2																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
(FEET)																			
200	104.5	105.2	105.1	108.1	110.9	113.9	111.5	117.0	118.9	122.1	125.2	128.9	132.1	132.1	127.8	124.1	104.1	94.1	84.1
250	102.4	103.1	102.9	106.0	108.8	111.8	109.3	114.8	116.7	119.9	123.1	126.8	130.0	130.0	125.7	122.0	102.0	92.0	82.0
315	100.3	100.9	100.8	103.9	106.6	109.6	107.2	112.6	114.5	117.8	120.9	124.6	127.8	127.9	123.6	119.9	99.9	89.9	79.9
400	98.1	98.7	98.6	101.7	104.4	107.4	105.0	110.4	112.3	115.5	118.7	122.4	125.7	125.8	121.5	117.8	97.7	87.7	77.7
500	95.9	96.5	96.4	99.5	102.2	105.1	102.8	108.2	110.0	113.2	116.5	120.2	123.5	123.6	119.3	115.7	95.5	85.5	75.5
630	93.6	94.2	94.1	97.3	100.0	102.8	100.5	105.8	107.7	110.9	114.2	117.9	121.2	121.4	117.1	113.4	93.3	83.3	73.3
800	91.3	91.8	91.8	95.0	97.6	100.5	98.2	103.4	105.3	108.5	111.9	115.6	118.9	119.1	114.9	111.2	91.0	81.0	71.0
1000	89.0	89.4	89.4	92.7	95.3	98.0	95.8	101.0	102.8	106.0	109.4	113.2	116.6	116.7	112.5	108.9	88.6	78.5	68.6
1250	86.5	86.8	86.9	90.2	92.8	95.5	93.3	98.4	100.2	103.5	106.9	110.7	114.1	114.3	110.0	106.4	86.1	76.1	66.1
1500	83.9	84.1	84.2	87.7	90.2	92.9	90.7	95.8	97.6	100.8	104.4	108.2	111.5	111.7	107.5	103.8	83.5	73.5	63.5
2000	81.3	81.5	81.5	85.1	87.6	90.1	88.1	93.0	94.8	98.0	101.7	105.5	108.8	109.1	104.8	101.2	80.8	70.8	60.8
2500	78.2	78.5	78.5	82.1	84.6	87.1	85.1	90.0	91.8	95.0	98.7	102.5	105.8	106.1	101.7	98.2	77.9	67.9	57.9
3150	74.7	74.7	75.2	78.9	81.3	83.9	81.8	86.8	88.5	91.8	95.5	99.3	102.5	102.8	98.4	94.9	74.7	64.7	54.7
4000	70.9	70.8	71.5	75.3	77.7	80.2	78.2	83.2	84.9	88.1	92.0	95.7	98.9	99.1	94.7	91.1	71.1	61.1	51.1
5000	66.6	66.5	67.3	71.2	73.7	76.1	74.1	79.1	80.8	84.0	88.0	91.6	94.7	94.9	90.5	86.8	67.1	57.1	47.1
6300	62.1	61.9	62.9	66.8	69.3	71.8	69.7	74.7	76.4	79.6	83.7	87.2	90.3	90.5	86.0	82.4	62.7	52.7	42.7
8000	58.4	58.1	59.1	63.0	65.3	67.7	65.8	70.6	72.2	75.5	79.6	83.3	86.4	86.7	82.3	78.7	58.7	48.7	38.7
10000	54.3	54.1	54.9	58.8	61.0	63.3	61.5	66.2	67.8	71.1	75.1	79.0	82.2	82.6	78.3	74.8	54.4	44.4	34.4
12500	50.0	49.7	50.4	54.3	56.3	58.5	56.9	61.3	62.9	66.2	70.3	74.4	77.6	78.0	73.9	70.4	49.7	39.7	29.7
16000	45.2	44.9	45.4	49.2	51.1	53.2	51.8	56.0	57.6	60.9	64.9	69.3	72.6	73.1	69.1	65.7	44.6	34.6	24.6
20000	40.0	39.6	40.0	43.7	45.4	47.5	46.3	50.2	51.8	55.1	59.0	63.6	67.2	67.7	63.9	60.4	39.1	29.1	19.1
25000	34.3	33.9	34.1	37.7	39.2	41.2	40.2	43.9	45.5	48.7	52.6	57.4	61.2	61.8	58.2	54.7	33.3	23.3	13.3

SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
F-3 AIRCRAFT																			
ENG. J57-P-20																			
GROUND RUNUP																			
OPERATION:																			
AFTERBURNER, MAX POWER																			
SINGLE ENGINE, F-8																			
DEFLECTED FLOW																			
EST. F-1000 +0.50B																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = .5 DB																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 77-527-002																			
RUN 02																			
AIRCRAFT COL= 527																			
OPERATION CODE 01003																			
PROFILE VERSION A																			
02 NOV 77																			
PAGE 62																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.8	107.0	105.1	109.2	110.9	115.0	111.5	117.0	118.9	122.1	125.2	130.1	133.4	133.5	129.0	125.5	104.1	94.1	84.1
250	103.7	104.9	102.9	107.1	108.8	112.9	109.3	114.8	116.7	119.9	123.1	128.0	131.3	131.4	126.9	123.5	102.0	92.0	82.0
315	101.5	102.7	100.8	105.0	106.6	110.7	107.2	112.6	114.5	117.8	120.9	125.8	129.1	129.3	124.8	121.4	99.9	89.9	79.9
400	99.4	100.5	98.6	102.8	104.4	108.5	105.0	110.4	112.3	115.5	118.7	123.6	127.0	127.1	122.7	119.3	97.7	87.7	77.7
500	97.2	98.2	96.4	100.6	102.2	106.2	102.8	108.2	110.0	113.2	116.5	121.4	124.8	124.9	120.5	117.1	95.5	85.5	75.5
630	94.9	95.9	94.1	98.4	100.0	103.9	100.5	105.8	107.7	110.9	114.2	119.1	122.5	122.7	118.3	114.9	93.3	83.3	73.3
800	92.6	93.6	91.8	96.1	97.6	101.6	98.2	103.4	105.3	108.5	111.9	116.8	120.2	120.4	116.1	112.6	91.0	81.0	71.0
1000	90.2	91.1	89.4	93.8	95.3	99.1	95.8	101.0	102.8	106.0	109.4	114.4	117.9	118.1	113.7	110.3	88.6	78.6	68.6
1250	87.7	88.5	86.9	91.3	92.8	96.6	93.3	98.4	100.2	103.5	106.9	111.9	115.4	115.6	111.2	107.9	86.1	76.1	66.1
1600	85.2	85.8	84.2	88.8	90.2	94.0	90.7	95.8	97.6	100.8	104.4	109.3	112.8	113.0	108.7	105.3	83.5	73.5	63.5
2000	82.5	83.1	81.5	86.2	87.6	91.2	88.1	93.0	94.8	98.0	101.7	106.7	110.1	110.4	106.0	102.7	80.8	70.8	60.8
2500	79.4	79.9	78.5	83.2	84.6	88.2	85.1	90.0	91.8	95.0	98.7	103.7	107.1	107.4	102.9	99.6	77.9	67.9	57.9
3150	76.0	76.4	75.2	80.0	81.3	85.0	81.8	86.8	88.5	91.8	95.5	100.5	103.8	104.1	99.6	96.3	74.7	64.7	54.7
4000	71.9	72.2	71.5	76.2	77.7	81.1	78.2	83.2	84.9	88.1	92.0	96.7	99.9	100.2	95.6	92.3	71.1	61.1	51.1
5000	67.4	67.5	67.3	71.8	73.7	76.8	74.1	79.1	80.8	84.0	88.0	92.3	95.5	95.7	91.2	87.7	67.1	57.1	47.1
6300	62.6	62.6	62.9	67.3	69.3	72.2	69.7	74.7	76.4	79.6	83.7	87.7	90.8	91.1	86.5	83.0	62.7	52.7	42.7
8000	58.6	58.5	59.1	63.2	65.3	67.9	65.8	70.6	72.2	75.5	79.6	83.5	86.7	87.0	82.6	79.0	58.7	48.7	38.7
10000	54.3	54.1	54.9	58.8	61.0	63.3	61.5	66.2	67.8	71.1	75.1	79.0	82.2	82.6	78.3	74.8	54.4	44.4	34.4
12500	53.0	49.7	50.4	54.3	56.3	58.5	56.9	61.3	62.9	66.2	70.3	74.4	77.6	78.0	73.9	70.4	49.7	39.7	29.7
16000	45.2	44.9	45.4	49.2	51.1	53.2	51.8	56.0	57.0	60.9	64.9	69.3	72.6	73.1	69.1	65.7	44.6	34.6	24.6
20000	40.0	39.6	40.0	43.7	45.4	47.5	46.3	50.2	51.8	55.1	59.0	63.6	67.2	67.7	63.9	60.4	39.1	29.1	19.1
25000	34.3	33.9	34.1	37.7	39.2	41.2	40.2	43.9	45.5	48.7	52.6	57.4	61.2	61.8	58.2	54.7	33.3	23.3	13.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:

F-3 AIRCRAFT

ENG. J57-P-20

GROUND RUNUP

OPERATION:

AFTERBURNER, MAX POWER

SINGLE ENGINE, F-8

DEFLECTED FLOW

EST. F-100D +0.5DB

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = .5 DB

IDENTIFICATION:

OMEGA 8.2

TEST 77-527-002

RUN 02

AIRCRAFT CODE 527

OPERATION CODE 01003

PROFILE VERSION A

02 NOV 77

PAGE J2

	50	60	70	80	90	100	110	120	130	140	150
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

Country	Year	Value
USAF	1990	1.00
USAF	1991	1.00
USAF	1992	1.00
USAF	1993	1.00
USAF	1994	1.00
USAF	1995	1.00
USAF	1996	1.00
USAF	1997	1.00
USAF	1998	1.00
USAF	1999	1.00
USAF	2000	1.00
USAF	2001	1.00
USAF	2002	1.00
USAF	2003	1.00
USAF	2004	1.00
USAF	2005	1.00
USAF	2006	1.00
USAF	2007	1.00
USAF	2008	1.00
USAF	2009	1.00
USAF	2010	1.00
USAF	2011	1.00
USAF	2012	1.00
USAF	2013	1.00
USAF	2014	1.00
USAF	2015	1.00
USAF	2016	1.00
USAF	2017	1.00
USAF	2018	1.00
USAF	2019	1.00
USAF	2020	1.00
USAF	2021	1.00
USAF	2022	1.00
USAF	2023	1.00
USAF	2024	1.00
USAF	2025	1.00
USAF	2026	1.00
USAF	2027	1.00
USAF	2028	1.00
USAF	2029	1.00
USAF	2030	1.00
USAF	2031	1.00
USAF	2032	1.00
USAF	2033	1.00
USAF	2034	1.00
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USAF	2075	1.00
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USAF	2090	1.00
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USAF	2092	1.00
USAF	2093	1.00
USAF	2094	1.00
USAF	2095	1.00
USAF	2096	1.00
USAF	2097	1.00
USAF	2098	1.00
USAF	2099	1.00
USAF	2100	1.00

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NOISE PRODUCED ON THE GROUND BY

AT 0800Z

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[illegible]

USAF	FLYOVER MEASUREMENTS	USAF
USAF	AIRCRAFT CODE: 136	USAF
USAF	PROFILE VERSION: A	USAF

<u>POWER SETTING</u>		<u>PAGE</u>
AFTERBURNER - 100% RPM	.....	299 - 307
COMPUTER PROGRAM OMEGA 6.6		

[illegible]

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM

NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT

	SOUND PRESSURE LEVEL SPECTRA	USAF
	AIR-TO-GROUND PROPAGATION	USAF
	SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)	USAF
	GROUND-TO-GROUND PROPAGATION	USAF
	SOUND PRESSURE LEVEL SPECTRA	USAF

[illegible]

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible][illegible]

	40	50	60	70	80	90	100	110	MEAN	SD
F 50	(.	(.	(.	(.	(.	(.	(.	(.	87.8	6.1
R 63	(.	(.	(.	(.	(.	(.	(.	(.	84.0	7.0
E 80	(.	(.	(.	(.	(.	(.	(.	(.	83.7	2.9
Q 100	(.	(.	(.	(.	(.	(.	(.	(.	94.9	3.9
R 125	(.	(.	(.	(.	(.	(.	(.	(.	100.6	4.1
E 160	(.	(.	(.	(.	(.	(.	(.	(.	102.7	3.7
Q 200	(.	(.	(.	(.	(.	(.	(.	(.	98.2	5.8
U 250	(.	(.	(.	(.	(.	(.	(.	(.	98.3	2.0
E 315	(.	(.	(.	(.	(.	(.	(.	(.	102.9	3.4
Q 400	(.	(.	(.	(.	(.	(.	(.	(.	101.4	1.5
R 500	(.	(.	(.	(.	(.	(.	(.	(.	102.5	3.0
E 630	(.	(.	(.	(.	(.	(.	(.	(.	102.6	2.8
Q 800	(.	(.	(.	(.	(.	(.	(.	(.	101.1	1.9
U 1000	(.	(.	(.	(.	(.	(.	(.	(.	101.1	2.2
E 1250	(.	(.	(.	(.	(.	(.	(.	(.	100.6	2.6
Q 1600	(.	(.	(.	(.	(.	(.	(.	(.	100.7	1.9
R 2000	(.	(.	(.	(.	(.	(.	(.	(.	99.7	2.2
E 2500	(.	(.	(.	(.	(.	(.	(.	(.	97.8	1.5
Q 3150	(.	(.	(.	(.	(.	(.	(.	(.	95.9	1.9
R 4000	(.	(.	(.	(.	(.	(.	(.	(.	93.7	1.8
E 5000	(.	(.	(.	(.	(.	(.	(.	(.	90.5	2.0
Q 6300	(.	(.	(.	(.	(.	(.	(.	(.	86.8	2.4
R 8000	(.	(.	(.	(.	(.	(.	(.	(.	81.9	2.8
E 10000	(.	(.	(.	(.	(.	(.	(.	(.	73.7	2.6

F-14 AFTERBURNER POWER 100 % RPM
 AIRSPEED = 300 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-136-101-260376
 PNLT = 123.2 PNOB
 PNL = 122.7 PNOB
 ALT = 111.1 DBA
 AL = 110.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		AIR-TO-GROUND PROPAGATION																IDENTIFICATION:	
		(OPERATION:) METEOROLOGY:)																	
		(AFTERBURNER POWER))																A/C CODE: 136	
		(100 % RPM))																OPS CODE: 101	
		())																REL HUMID = 70 %	
		())																PROFILE VER: A	
		())																26 MAR 76	
		(AIRSPEED = 300 KNOTS) DELTA N = 0.0 DB																PAGE H1	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
((OPERATION:) METEOROLOGY:)										A/C CODE: 136	
((AFTERBURNER POWER))										OPS CODE: 101	
((100 % RPM))										REL HUMID = 70 %	
((AIRSPEED = 300 KNOTS) DELTA N = 0.0 DB										26 MAR 76	
(())										PAGE 11	

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	126.8	127.4	140.0	140.0	125.6	126.5	129.5				
250	124.6	125.2	137.8	138.3	124.4	125.3	128.2				
315	122.4	123.0	135.4	136.0	123.1	124.1	126.9				
400	120.1	120.7	133.1	133.6	121.9	122.8	125.5				
500	117.8	118.4	130.6	131.2	120.6	121.5	124.1				
630	115.5	116.0	128.1	128.6	119.2	120.2	122.6				
800	113.0	113.6	125.4	126.0	117.8	118.8	120.9				
1000	110.6	111.1	122.7	123.2	116.3	117.3	119.2				
1250	108.0	108.6	119.8	120.4	114.7	115.7	117.3				
1600	105.4	105.9	116.8	117.4	113.1	114.1	115.3				
2000	102.6	103.2	113.7	114.2	111.4	112.3	113.2				
2500	99.8	100.3	110.3	110.9	109.5	110.5	110.8				
3150	96.8	97.4	106.9	107.5	107.6	108.5	108.4				
4000	93.8	94.2	103.7	104.1	105.5	106.3	106.0				
5000	90.6	90.9	100.4	100.7	103.3	103.9	103.5				
6300	87.2	87.4	97.0	97.3	100.9	101.3	100.9				
8000	83.7	83.8	93.5	93.6	98.4	98.6	98.2				
10000	80.0	80.0	89.9	89.9	95.7	95.7	95.4				
12500	76.1	76.1	86.0	86.0	92.9	92.9	92.5				
16000	72.0	72.0	81.9	81.9	89.8	89.8	89.4				
20000	67.8	67.8	77.6	77.6	86.5	86.5	86.1				
25000	63.2	63.2	73.1	73.1	83.0	83.0	82.7				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									
(OPERATION:) METEOROLOGY:)																									
(AFTERBURNER POWER) TEMP = 59 F)																									
(100 % RPM) REL HUMID = 70 %)																									
())																									
(AIRSPEED = 300 KNOTS) DELTA N = 0.0 DB)																									
F-14																									
AIRCRAFT:																									
OMEGA 6.6																									
A/C CODE: 136																									
OPS CODE: 101																									
PROFILE VER: A																									
26 MAR 76																									
PAGE L1																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	97	93	93	104	110	112	107	108	112	111	112	112	111	111	111	112	111	110	109	109	107	106	106	105	
250	95	91	91	102	108	110	105	106	110	109	110	110	109	109	109	109	109	108	107	106	104	104	103	101	
315	93	89	89	100	106	108	103	104	108	107	108	108	107	107	107	107	107	106	105	104	102	101	100	97	
400	91	87	87	98	104	106	101	102	106	105	106	106	105	105	105	105	105	103	102	101	99	98	96	93	
500	89	85	85	96	102	103	99	99	104	103	104	104	103	103	102	103	102	101	100	99	96	94	92	88	
630	87	83	83	94	99	101	96	97	102	101	102	102	101	101	100	101	100	98	97	96	93	91	88	83	
800	85	81	81	92	96	98	93	94	100	99	100	100	98	98	98	98	97	96	94	92	89	87	83	76	
1000	83	79	79	89	93	95	90	91	98	96	98	98	96	96	96	96	95	93	91	89	85	82	77	69	
1250	81	77	76	86	90	92	87	88	95	94	95	95	94	94	93	93	92	90	87	85	81	77	70	60	
1600	79	74	72	82	87	88	84	84	92	92	93	93	91	91	90	90	89	86	84	80	76	70	62	49	
2000	76	70	69	78	83	85	80	80	88	90	91	91	89	89	88	87	86	83	79	75	70	63	52	35	
2500	72	66	64	74	79	80	76	76	84	86	88	88	86	86	85	84	82	79	75	69	64	54	41	19	
3150	68	62	60	69	74	75	71	71	80	82	85	86	84	83	82	80	78	74	69	62	56	44	26		
4000	64	57	54	64	68	70	65	65	74	77	81	82	81	80	78	76	74	69	62	54	46	31	9		
5000	58	52	50	59	63	65	60	60	68	72	77	78	77	76	74	72	68	62	55	44	35	16			
6300	53	48	45	54	59	60	55	55	63	66	73	74	73	72	70	67	62	55	46	32	21				
8000	51	45	43	52	56	58	53	53	60	63	69	70	69	68	65	61	55	47	35	17	4				
10000	49	43	41	50	54	55	50	50	57	60	66	66	64	63	59	54	47	36	21						
12500	47	41	38	47	51	53	47	47	54	57	62	62	59	57	52	46	37	24	5						
16000	45	39	36	45	49	50	44	44	50	53	58	57	54	50	44	36	25	8							
20000	42	36	34	42	46	47	41	40	46	48	53	51	47	42	34	24	10								
25000	40	34	31	39	43	44	38	37	42	43	47	44	39	32	22	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

	30	40	50	60	70	80	90	100	MEAN	SD
F	75.3	1.5
R	74.3	3.4
E	71.9	1.1
Q	71.3	2.6
U	78.6	1.5
E	85.4	1.2
N	87.1	1.7
C	82.8	2.7
Y	84.7	2.4
I	90.6	1.8
N	96.1	1.2
H	101.2	1.6
Z	99.6	2.9
3150	98.6	2.1
4000	97.3	1.8
5000	95.1	1.9
6300	93.8	3.0
8000	92.7	2.7
10000	89.7	2.5
	86.8	3.7
	83.3	4.4
	79.0	5.3
	71.3	6.4
	59.9	8.7

F-14 TAKEOFF POWER 100 % RPM
 AIRSPEED = 299 KNOTS TEMP = 59 F
 SLANT DISTANCE = 1000 FEET REL HUMID = 70 %
 NO. OF RECORDS = 3 IDENT: 6.6-136-103-260376
 PNLT = 117.1 PNDB
 PNL = 116.0 PNDB
 ALT = 107.5 DBA
 AL = 106.4 DBA

S-T-E									
F-14 TAKEOFF POWER									
200	(	100 % RPM	.	.	.	.	.	ST E	.
250	(	AIRSPEED = 300 KNOTS	.	.	.	.	.	ST E	.
315	(	TEMP = 59 F REL HUMID = 70 %	.	.	.	.	.	ST E	.
400	(	DELTA N = 0.0 DB	.	.	.	.	.	ST E	.
500	(	NO. OF RECORDS: 3	.	.	.	.	.	ST E	.
630	(	IDENT: 6.6-136-103-260376-A	.	.	.	.	.	ST E	.
800	(	.	.	.	.	.	.	STE	.
1000	(	.	.	.	.	.	.	SX	.
1250	(	.	.	.	.	.	.	SX	.
1600	(	.	.	.	.	.	.	SX	.
2000	(	.	.	.	.	.	.	SX	.
2500	(	.	.	.	.	.	.	XT	.
3150	(	.	.	.	.	.	.	XT	.
4000	(	.	.	.	.	.	.	XT	.
5000	(	.	.	.	.	.	.	XT	.
6300	(	.	.	.	.	.	.	EST	.
8000	(	.	.	.	.	.	.	E X.	.
10000	(	.	.	.	.	.	.	E X.	.
12500	(	.	.	.	.	.	.	EX	.
16000	(	.	.	.	.	.	.	E X	.
20000	(	.	.	.	.	.	.	E X	.
25000	(	.	.	.	.	.	.	E X	.
E-X									
50		60	70	80	90	100	110	120	130
NOISE LEVEL IN DB									
AIR TO GROUND E = EPNL T = SELT S = SEL									

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 136	
F-14										OPS CODE: 103	
										PROFILE VER: A	
										26 MAR 76	
										PAGE M2	
METEOROLOGY:											
TEMP										= 59 F	
REL HUMID										= 70 %	
DELTA N = 0.0 DB											
AIRSPEED = 300 KNOTS											
TAKEOFF POWER											
100 % RPM											
AL											
ALT**											
PNL											
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* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

	10	20	30	40	50	60	70	80	MEAN	SD
50	(.	58.5	5.2
63	(.	63.4	13.1
80	(.	60.9	10.5
100	(.	64.6	5.2
125	(.	66.1	7.4
160	(.	74.2	2.3
200	(.	71.5	2.5
250	(.	74.2	2.6
315	(.	70.8	3.3
400	(.	75.5	.5
500	(.	71.4	1.4
630	(.	75.0	2.5
800	(.	72.9	3.5
1000	(.	73.4	.1
1250	(.	74.0	.6
1600	(.	73.1	1.7
2000	(.	78.9	5.6
2500	(.	72.7	2.1
3150	(.	68.8	1.6
4000	(.	73.1	9.4
5000	(.	66.7	8.1
6300	(.	55.9	.9
8000	(.	50.2	2.6
10000	(.	32.7	3.4

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

F-14

CRUISE POWER

82.5 X RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

TEMP = 59 F
REL HUMID = 70 %

PNLT = 99.9 PNDB
PNL = 97.9 PNDB
ALT = 86.9 DBA
AL = 84.9 DBA

IDENT: 6.6-136-104-260376

NO. OF RECORDS = 2

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6
AIRCRAFT:																									A/C CODE: 136
F-14																									OPS CODE: 104
(CRUISE POWER = 59 F																									PROFILE VER: A
(82.5 % RPM																									26 MAR 76
(AIRSPEED = 350 KNOTS																									PAGE H3
DELTA N = 0.0 DB																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	73	78	75	79	80	89	86	89	86	91	87	91	89	90	91	92	99	94	93	101	98	94	99	98	
250	71	76	73	77	78	87	84	87	84	88	85	89	87	88	89	89	96	92	90	98	95	90	95	93	
315	69	73	71	75	76	85	82	85	82	86	83	86	85	86	87	87	94	89	88	95	91	86	90	86	
400	67	71	69	73	74	82	80	83	79	84	80	84	83	83	85	84	91	86	84	92	87	82	84	79	
500	65	69	67	71	72	80	78	81	77	82	78	82	80	81	82	82	88	83	81	88	83	77	78	71	
630	63	67	65	69	70	78	76	78	75	80	76	80	78	79	80	79	85	80	77	84	78	71	70	60	
800	61	65	63	67	68	76	74	76	73	78	74	77	75	76	77	76	82	77	73	79	73	64	61	48	
1000	59	63	61	65	66	74	71	74	71	75	71	75	73	73	74	73	79	73	69	73	67	56	50	33	
1250	56	61	59	63	64	72	69	72	69	73	69	72	70	71	71	70	75	68	63	66	59	46	37	14	
1600	54	59	57	60	62	70	67	70	66	71	66	70	67	67	67	66	71	63	57	59	50	34	21		
2000	52	57	55	58	60	68	65	67	64	68	64	67	64	64	64	62	66	57	50	49	40	20	1		
2500	50	55	53	56	57	65	62	65	61	65	61	64	61	60	59	57	60	50	41	38	27	2			
3150	48	53	50	54	55	63	60	62	59	62	58	60	57	56	55	51	53	42	31	24	11				
4000	46	51	48	52	53	61	57	60	56	59	54	56	53	51	49	44	45	32	19	8					
5000	44	49	46	49	50	58	55	57	53	56	51	52	48	46	43	37	36	21	3						
6300	42	46	44	47	48	55	52	54	49	52	46	47	42	39	35	27	25	6							
8000	39	44	41	44	45	52	49	50	45	48	41	42	36	31	26	16	11								
10000	37	41	39	42	42	49	45	47	41	43	36	35	28	22	15	2									
12500	35	39	36	39	39	46	42	42	37	38	29	28	19	11	2										
16000	32	36	33	36	36	42	37	38	31	31	22	19	8												
20000	29	33	30	32	32	38	33	32	25	24	13	8													
25000	27	30	27	29	28	33	27	26	17	15	2														

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 2
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	(OPERATION:		) METEOROLOGY:		) IDENTIFICATION:				
	(CRUISE POWER			TEMP					
F-14	(82.5 % RPM			REL HUMID = 70 %			OMEGA	6.6	
	(AIRSPEED = 350 KNOTS			DELTA N = 0.0 DB			A/C CODE: 136		
							OPS CODE: 104		
							PROFILE VER: A		
							26 MAR 76		
							PAGE	13	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (C9)	SELT** (DB)	EPNL** (EPNDB)		
200	107.7	109.7	122.2	124.2	104.5	106.6	110.0		
250	104.7	106.7	119.3	121.3	102.5	104.6	108.1		
315	101.6	103.6	116.2	118.2	100.4	102.5	106.0		
400	98.5	100.5	112.9	114.9	98.3	100.4	103.7		
500	95.2	97.2	109.4	111.4	96.0	98.1	101.2		
630	91.9	93.9	105.6	107.5	93.7	95.8	98.4		
800	88.4	90.4	101.6	103.6	91.2	93.3	95.4		
1000	84.9	86.9	97.9	99.9	88.6	90.7	92.7		
1250	81.2	83.2	93.9	95.9	86.0	88.1	89.7		
1600	77.5	79.5	89.7	91.7	83.3	85.4	86.5		
2000	73.6	75.6	85.2	87.2	80.4	82.5	83.0		
2500	69.7	71.7	80.2	82.2	77.5	79.6	79.1		
3150	65.7	67.7	75.4	77.4	74.5	76.6	75.2		
4000	61.7	63.3	71.3	72.9	71.5	73.1	71.6		
5000	57.6	58.8	67.0	68.2	68.4	69.6	67.9		
6300	53.4	54.2	62.4	63.2	65.2	66.0	64.0		
8000	49.0	49.4	57.5	57.9	61.8	62.2	59.6		
10000	44.5	44.5	51.9	51.9	58.3	58.3	54.6		
12500	39.7	39.7	46.1	46.1	54.5	54.5	49.8		
16000	34.7	34.7	39.5	39.5	50.5	50.5	44.2		
20000	29.4	29.4	31.4	31.4	46.2	46.2	37.1		
25000	23.7	23.7	20.5	20.5	41.5	41.5	27.2		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 2
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	CRUISE POWER										S-T-E									
200	F-14																			
250	82.5 % RPM										. S T E .									
315	AIRSPEED = 350 KNOTS																			
400	TEMP = 59 F REL HUMID = 70 %										. S T E .									
500	DELTA N = 0.0 DB																			
	NO. OF RECORDS: 2										. S T E .									
	IDENT: 6.6-136-104-260376-A										. S T E .									
S 630											. S T E .									
L 800											. S T E .									
N 1000											. S T E .									
D 1250											. S T E .									
I 1600											. S T E .									
S 2000											. S T E .									
N 2500											. S T E .									
C 3150											. S T E .									
E 4000											. S T E .									
I 5000											. S T E .									
F 6300											. S T E .									
E 8000											. S T E .									
10000											. S T E .									
12500											. S T E .									
16000											. S T E .									
20000											. S T E .									
25000											. S T E .									

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																							OMEGA 6.6	
AIRCRAFT:																							A/C CODE: 136	
F-14																							OPS CODE: 104	
CRUISE POWER																							REL HUMID = 70 %	
82.5 % RPM																							26 MAR 76	
AIRSPEED = 350 KNOTS																							DELTA N = 0.0 DB	
FREQUENCY BAND NUMBER																							PAGE L3	
SLANT DISTANCE (FEET)																								
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
68	73	70	74	75	84	81	84	81	86	82	86	84	85	86	87	94	89	88	96	93	89	94	93	
66	71	68	72	73	82	79	82	79	83	80	84	82	83	84	84	91	87	85	93	90	85	90	88	
315	64	66	70	71	80	77	80	77	81	78	81	80	81	82	82	89	84	83	90	86	81	85	81	
400	62	66	64	68	69	77	75	78	74	79	75	79	78	80	79	86	81	79	87	82	77	79	74	
500	60	64	62	66	67	75	72	75	72	77	73	77	75	76	77	83	78	76	83	78	72	73	66	
630	58	62	60	64	65	72	70	73	70	75	71	75	73	74	75	80	75	72	79	73	66	65	55	
800	56	60	58	61	62	69	67	70	68	73	69	72	70	71	72	71	77	72	68	74	68	59	56	43
1000	54	58	56	59	59	66	64	67	66	70	66	68	68	69	68	74	68	64	58	62	51	45	28	
1250	51	56	53	55	56	63	60	64	63	68	64	67	65	66	66	70	63	58	61	54	41	32	9	
1600	49	53	49	52	52	60	57	60	59	66	61	65	62	62	62	61	66	58	52	45	29	16		
2000	46	49	46	48	48	56	53	56	55	63	59	62	59	59	59	57	61	52	45	44	35	15		
2500	43	45	41	43	44	51	48	51	51	59	56	59	56	55	54	52	55	45	36	33	22			
3150	39	41	37	38	39	46	43	46	46	54	52	55	52	51	50	46	48	37	26	19	6			
4000	34	36	31	33	33	40	37	40	41	49	47	51	48	46	44	39	40	27	14	3				
5000	29	31	26	28	28	35	32	34	34	43	42	45	42	41	38	32	31	16						
6300	24	26	22	23	23	30	26	29	27	36	36	39	36	34	30	22	20	1						
8000	21	24	19	20	20	27	23	25	23	32	31	34	30	26	21	11	6							
10000	19	21	17	18	17	24	20	22	19	27	26	27	22	17	10									
12500	17	19	14	15	14	20	16	17	15	22	19	20	13	6										
16000	14	16	11	12	11	17	12	13	9	15	12	11	2											
20000	11	13	8	8	7	12	7	7	3	8	3													
25000	9	10	5	5	3	8	1	1																

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 2
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

[illegible]

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
AIR-TO-GROUND PROPAGATION																								
AIRCRAFT:																								
F-14																								
METEOROLOGY:																								
TEMP = 59 F																								
REL HUMID = 70 %																								
DELTA N = 0.0 DB																								
AIRSPEED = 150 KNOTS																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	79	77	76	82	88	91	88	86	90	88	90	89	89	90	92	97	95	99	109	99	95	99	91
250	79	77	75	74	80	86	89	86	84	88	86	88	87	87	87	90	94	92	96	106	97	92	96	87
315	77	75	73	72	78	84	87	84	82	86	84	86	85	85	85	88	92	90	94	104	94	89	92	83
400	75	73	71	70	76	82	85	82	80	84	82	83	83	83	83	86	90	88	91	101	91	85	88	78
500	73	71	69	68	74	80	83	80	78	82	80	81	81	80	81	84	88	85	89	98	88	82	84	73
630	71	69	67	66	72	78	81	78	76	80	78	79	79	78	79	81	85	83	86	95	85	78	79	66
800	69	67	65	64	70	76	79	76	73	78	75	77	77	76	76	79	82	80	83	91	81	73	73	59
1000	67	65	63	62	68	74	77	74	71	76	73	75	74	73	74	76	80	77	79	87	76	68	66	50
1250	65	63	61	60	66	72	74	72	69	73	71	72	72	71	71	73	77	73	75	83	72	62	58	39
1600	63	61	59	58	64	70	72	69	67	71	69	70	69	68	68	70	73	70	71	78	66	54	49	26
2000	61	59	57	56	62	67	70	67	65	69	66	68	67	66	65	67	70	66	66	72	59	46	37	10
2500	59	57	55	54	60	65	68	65	62	66	64	65	64	63	62	64	66	61	61	65	51	36	23	6
3150	57	55	53	52	57	63	66	63	60	64	61	62	61	59	59	60	61	56	54	57	42	23	8	
4000	54	53	51	50	55	61	63	60	58	61	58	59	58	56	55	55	56	50	47	47	31	17		
5000	52	51	48	48	53	59	61	58	55	59	56	56	54	52	50	50	50	43	38	35	17			
6300	50	49	46	45	51	56	59	55	52	56	52	53	51	48	45	44	43	34	27	21	1			
8000	48	47	44	43	48	54	56	53	49	52	49	49	46	43	40	37	35	24	14	3				
10000	46	44	42	41	46	51	53	50	45	49	45	44	41	37	33	29	25	11						
12500	44	42	39	38	43	48	50	46	43	45	41	39	35	30	25	19	13							
16000	41	40	37	36	41	45	47	43	39	41	36	34	29	22	15	8								
20000	39	37	34	33	38	42	44	40	35	36	30	27	21	13	4									
25000	37	35	32	30	35	39	40	35	30	30	23	19	11	1										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 136	
F-14										OPS CODE: 105	
										PROFILE VER: A	
										26 MAR 76	
										PAGE 14	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

F-14 APPROACH POWER										S-T-E		
200	(	85 % RPM										
250	(	AIRSPD = 150 KNOTS										
315	(	TEMP = 59 F REL HUMID = 70 %										
400	(	DELTA N = 0.0 DB										
500	(	NO. OF RECORDS: 6										
	(	IDENT: 6.6-136-105-260376-A										
S 630	(
L 800	(
N 1000	(
D 1250	(
I 1600	(
S 2000	(
A 2500	(
N 3150	(
I 4000	(
F 5000	(
E 6300	(
T 8000	(
10000	(
12500	(
16000	(
20000	(
25000	(

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								
GROUND-TO-GROUND PROPAGATION																								
AIRCRAFT: (OPERATION:) METEOROLOGY:) IDENTIFICATION:)																								
F-14 (APPROACH POWER) TEMP = 59 F) A/C CODE: 136)																								
(85 % RPM) REL HUMID = 70 %) OPS CODE: 105)																								
(AIRSPEED = 150 KNOTS) DELTA N = 0.0 DB) PROFILE VER: A)																								
()) 26 MAR 76)																								
()) PAGE L4)																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	74	72	71	77	83	86	83	81	85	83	85	84	84	85	87	92	90	94	104	94	90	94	86
250	74	72	70	69	75	81	84	81	79	83	81	83	82	82	82	85	89	87	91	101	92	87	91	82
315	72	70	68	67	73	79	82	79	77	81	79	81	80	80	80	83	87	85	89	99	89	84	87	78
400	70	68	66	65	71	77	80	77	75	79	77	78	78	78	78	81	85	83	86	96	86	80	83	73
500	68	66	64	63	69	74	77	75	73	77	75	76	76	75	76	79	83	80	84	93	83	77	79	68
630	66	64	62	61	66	72	74	72	71	75	73	74	74	73	74	76	80	78	81	90	80	73	74	61
800	64	62	60	59	64	69	72	69	68	73	70	72	72	71	71	74	77	75	78	86	76	68	68	54
1000	62	60	58	56	61	66	69	66	66	71	68	70	69	68	69	71	75	72	74	82	71	63	61	45
1250	60	58	55	53	58	63	66	63	63	68	66	67	67	66	66	68	72	68	70	78	67	57	53	34
1600	58	55	51	49	54	59	62	60	60	66	64	65	64	63	63	65	68	65	66	73	61	49	44	21
2000	55	52	48	46	50	55	58	56	56	64	61	63	62	61	60	62	65	61	61	67	54	41	32	5
2500	51	48	44	41	46	51	54	51	52	60	59	60	59	58	57	59	61	56	56	60	46	31	18	
3150	47	43	39	36	41	46	49	46	48	56	55	57	56	54	54	55	56	51	49	52	37	18	1	
4000	43	38	34	31	35	40	43	40	43	51	51	54	53	51	50	50	51	45	42	42	26	3		
5000	37	33	29	26	31	36	38	35	36	45	47	49	49	47	45	45	45	38	33	30	12			
6300	32	29	24	21	26	31	33	30	30	40	42	45	45	43	40	39	38	29	22	16				
8000	30	27	22	19	23	28	30	28	27	36	39	41	40	38	35	32	30	19	9					
10000	28	24	20	17	21	26	28	25	24	33	35	36	35	32	28	24	20	6						
12500	26	22	17	14	18	23	25	21	21	29	31	31	29	25	20	14	8							
16000	23	20	15	12	16	20	22	18	17	25	26	26	23	17	10	3								
20000	21	17	12	9	13	17	18	14	13	20	20	19	15	8										
25000	19	15	10	6	10	13	14	10	8	14	13	11	5											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 136	
F-14										OPS CODE: 105	
										PROFILE VER: A	
										26 MAR 76	
										PAGE M4	
METEOROLOGY:											
TEMP										= 59 F	
REL HUMID										= 70 %	
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	106.5	109.3	121.5	124.3	106.8	109.2	113.9				
250	104.0	106.8	119.0	121.8	105.3	107.7	112.4				
315	101.4	104.2	116.4	119.3	103.7	106.1	110.8				
400	98.7	101.5	113.7	116.5	102.0	104.4	109.1				
500	95.8	98.6	110.8	113.6	100.1	102.5	107.2				
630	92.6	95.5	107.7	110.5	98.0	100.4	105.1				
800	89.3	92.1	104.3	107.1	95.5	98.0	102.7				
1000	85.7	88.5	100.6	103.4	93.0	95.5	100.0				
1250	81.8	84.7	96.5	99.3	90.2	92.6	96.9				
1600	77.7	80.5	92.0	94.8	87.1	89.5	93.4				
2000	73.5	76.3	87.0	89.8	83.8	86.2	89.3				
2500	69.1	71.9	81.3	84.1	80.4	82.8	84.7				
3150	64.7	67.5	75.6	78.4	77.0	79.4	80.0				
4000	60.2	62.4	70.1	72.3	73.5	75.5	75.0				
5000	55.4	57.1	64.1	65.8	69.7	71.2	69.5				
6300	50.3	51.4	57.3	58.4	65.6	66.6	63.2				
8000	45.4	46.0	51.2	51.8	61.7	62.2	57.6				
10000	40.3	40.3	44.8	44.8	57.6	57.6	51.7				
12500	34.8	34.8	37.6	37.6	53.1	53.1	45.6				
16000	28.9	28.9	28.7	28.7	48.2	48.2	37.6				
20000	22.4	22.4	17.2	17.2	42.8	42.8	27.1				
25000	15.5	15.5	5.6	5.6	36.9	36.9	16.6				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																		
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 136 F-14A AIRCRAFT (IDLE, 70% RPM) TEMP = 59 F) OPERATION CODE 01013 ENG. TF30-P-412 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A GROUND RUNUP () REL HUMID = 70 %) 03 NOV 75 () DELTA N = -3.0 DB) PAGE C1																		
IDENTIFICATION:) OMEGA 8.2) TEST 74-004-006) RUN 01																		
BAND CENTER FREQ (HZ)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170 >180
50	68	70	70	71	69	67	65	65	67	64	66	68	68	67	66	68	66	69<
63	67	68	68	71	68	68	66	67	67	67	68	66	67	69	69	70	68	69<
80	74	75	73	71	71	75	74	73	76	74	75	75	77	77	79	80	78	69
100	75	76	75	73	73	77	75	74	76	74	73	75	77	78	80	82	79	70
125	69	69	69	69	68	66	65	66	67	68	67	70	71	73	72	73	71	63
150	72	71	70	72	69	70	68	69	72	73	74	75	78	79	77	77	76	66
200	69	70	70	68	65	67	66	66	68	68	69	71	74	76	74	74	73	63
250	70	70	68	65	66	66	65	64	68	68	69	70	73	76	75	72	71	61
315	73	73	68	68	68	68	65	64	69	70	69	71	74	74	74	71	68	56
400	74	73	69	70	69	69	65	65	68	69	69	71	73	74	74	71	68	56
500	73	73	70	70	69	69	66	63	67	66	67	68	72	71	72	66	64	54
630	73	72	71	71	71	72	69	68	71	67	71	69	74	71	74	69	68	54
800	74	72	71	70	70	69	64	61	63	62	63	61	67	67	66	61	59	52
1000	75	75	74	74	74	72	66	63	63	61	63	59	65	64	64	62	58	52
1250	80	79	78	77	77	73	67	67	66	64	63	60	65	65	65	62	53	33
1600	86	84	82	81	81	78	72	70	69	63	63	65	66	68	68	65	57	37
2000	98	98	96	95	96	91	87	84	82	76	75	78	77	78	78	79	77	50
2500	88	88	86	88	86	84	79	78	77	71	69	72	75	74	75	74	72	64
3150	89	88	86	86	85	82	76	75	74	68	68	68	71	71	71	70	73	60
4000	90	90	88	89	89	86	80	80	77	71	72	72	75	74	74	72	70	62
5000	87	87	86	87	86	84	77	77	74	69	71	73	76	78	77	74	71	61
6300	85	85	83	84	84	81	73	73	71	66	68	71	75	75	75	72	66	57
8000	80	80	78	79	78	76	70	69	66	63	66	70	72	73	73	70	63	52
10000	76	75	74	74	74	71	65	64	62	57	60	63	66	67	66	63	58	46
OVERALL	100	100	98	98	98	95	90	88	87	83	84	85	87	88	88	88	86	78

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECTS: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 136																			
F-14A AIRCRAFT (IDLE, 70% RPM)) TEMP = 59 F) OPERATION CODE 01013																			
ENG. TF30-P-412 (SINGLE ENGINE)) BAR PRESS = 29.92 IN HG) PROFILE VERSION A																			
GROUND RUNUP ()) REL HUMID = 70 %) 03 NOV 75																			
()) DELTA N = -3.0 DB) PAGE 01																			
IDENTIFICATION:)																			
OMEGA 8.2																			
TEST 74-004-006																			
RUN 01																			
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	116.0	116.0	113.8	113.8	114.2	110.6	105.6	104.1	102.5	97.9	98.0	99.9	101.8	102.5	102.5	101.2	98.9	90.9	70.2
250	113.8	113.8	111.6	111.6	112.0	108.3	103.4	101.8	100.3	95.6	95.8	97.6	99.4	100.2	100.2	98.9	96.6	88.6	67.8
315	111.5	111.5	109.3	109.3	109.6	106.0	101.1	99.5	98.0	93.3	93.4	95.3	96.9	97.7	97.7	96.6	94.3	86.3	65.4
400	109.1	109.1	106.9	106.9	107.3	103.6	98.7	97.1	95.6	90.9	91.1	92.9	94.4	95.1	95.1	94.2	91.9	83.9	62.9
500	106.7	106.6	104.4	104.4	104.8	101.1	96.2	94.6	93.1	88.4	88.5	90.4	91.7	92.4	92.4	91.7	89.5	81.5	60.2
630	104.1	104.1	101.9	101.9	102.2	98.5	93.6	92.0	90.5	85.8	85.9	87.7	89.0	89.7	89.6	89.1	86.9	78.9	57.4
800	101.4	101.4	99.2	99.1	99.5	95.8	90.9	89.3	87.8	83.1	83.2	85.0	86.2	86.9	86.9	86.4	84.1	76.1	54.5
1000	98.5	98.5	96.3	96.2	96.7	92.9	88.1	86.4	84.9	80.2	80.3	82.1	83.3	83.9	83.9	83.4	81.2	73.3	51.2
1250	95.5	95.5	93.2	93.1	93.6	89.8	85.0	83.3	81.8	77.1	77.1	78.9	80.1	80.7	80.7	80.3	78.1	70.2	47.6
1600	92.2	92.2	89.9	89.8	90.3	86.5	81.7	79.9	78.5	73.8	73.8	75.6	76.7	77.3	77.3	76.9	74.8	66.7	42.7
2000	88.7	88.7	86.4	86.2	86.7	82.9	78.1	76.3	74.9	70.2	70.1	71.9	73.1	73.6	73.7	73.3	71.1	63.0	37.8
2500	84.8	84.8	82.4	82.3	82.8	78.9	74.2	72.3	70.9	66.2	66.1	67.8	69.0	69.6	69.6	69.2	67.0	58.7	31.3
3150	80.5	80.5	78.1	77.9	78.5	74.6	69.8	67.9	66.5	61.7	61.6	63.3	64.5	65.0	65.1	64.7	62.4	53.9	25.6
4000	75.7	75.7	73.3	73.1	73.7	69.7	64.9	62.8	61.5	56.4	56.4	58.2	59.4	59.9	60.0	59.6	57.3	48.1	17.4
5000	70.3	70.3	67.9	67.5	68.2	64.2	59.2	57.1	55.6	50.5	50.5	52.2	53.6	54.1	54.2	53.6	51.3	41.7	8.3
6300	64.1	64.1	61.6	61.3	62.1	57.8	52.8	50.6	49.1	43.5	43.4	45.3	46.7	47.4	47.3	46.9	44.0	32.6	
8000	57.2	57.2	54.6	54.3	55.0	50.7	45.7	43.0	41.5	35.4	36.3	37.3	40.4	39.5	40.8	38.7	35.4	20.8	
10000	49.2	49.1	46.5	46.1	46.9	42.3	36.1	33.1	31.7	24.9	29.1	28.2	34.0	32.4	34.4	28.7	24.2	8.9	
12500	38.6	38.4	35.2	34.6	35.5	30.5	20.6	15.5	21.2	15.3	20.3	18.3	26.6	23.6	27.2	18.1	14.0		
16000	23.9	22.4	15.5	14.8	16.3	13.7	5.2		9.1	5.7	9.1	8.4	17.5	15.0	17.5	7.4	3.9		
20000	9.3	6.5											8.5	6.4	7.9				
25000																			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-14A AIRCRAFT																			
(ENG. TF30-P-412																			
(GROUND RUNUP																			
OPERATION:																			
(IDLE, 70% RPM																			
(SINGLE ENGINE																			
METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
(0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180)																			
(DISTANCE																			
((FEET)																			
(200	119.7	120.1	117.7	117.4	118.5	114.1	109.4	107.5	105.6	100.9	101.3	103.0	103.9	104.9	104.7	103.8	101.6	94.2	73.5
(250	117.5	117.9	115.5	115.2	116.2	111.9	107.2	105.2	103.3	98.6	99.0	100.8	101.5	102.5	102.3	101.6	99.3	92.0	71.1
(315	115.2	115.6	113.1	112.8	113.9	109.5	104.9	102.9	101.0	96.3	96.7	98.4	99.1	100.0	99.8	99.3	97.0	89.6	68.7
(400	112.8	113.2	110.8	110.5	111.5	107.1	102.5	100.5	98.6	93.9	94.3	96.0	96.5	97.4	97.3	96.9	94.6	87.3	66.2
(500	110.4	110.8	108.3	108.0	109.1	104.7	100.1	98.1	96.2	91.4	91.8	93.5	93.9	94.7	94.5	94.4	92.1	84.8	63.6
(630	107.8	108.2	105.7	105.4	106.5	102.1	97.5	95.4	93.6	88.8	89.2	90.9	91.2	92.0	91.8	91.8	89.5	82.2	60.8
(800	105.1	105.5	103.0	102.7	103.8	99.3	94.8	92.7	90.9	86.1	86.4	88.1	88.4	89.2	89.0	89.0	86.8	79.5	57.8
(1000	102.2	102.6	100.1	99.8	100.9	96.4	91.9	89.8	88.0	83.2	83.5	85.2	85.5	86.2	86.1	86.1	83.9	76.6	54.5
(1250	99.2	99.6	97.1	96.7	97.9	93.4	88.8	86.7	84.9	80.1	80.4	82.1	82.3	83.0	82.9	82.9	80.8	73.5	50.9
(1600	95.9	96.3	93.8	93.4	94.6	90.0	85.5	83.4	81.6	76.8	77.1	78.7	78.9	79.6	79.5	79.6	77.4	70.0	46.0
(2000	92.4	92.8	90.2	89.8	91.0	86.4	81.9	79.7	77.9	73.2	73.4	75.1	75.2	76.0	75.8	75.9	73.8	66.3	41.1
(2500	88.5	88.9	86.3	85.8	87.1	82.5	78.0	75.7	74.0	69.2	69.3	71.0	71.2	71.9	71.7	71.9	69.7	62.0	34.6
(3150	84.2	84.6	82.0	81.5	82.8	78.1	73.7	71.3	69.5	64.6	64.8	66.5	66.7	67.4	67.2	67.3	65.1	57.2	28.9
(4000	78.6	79.0	76.4	75.9	77.1	72.5	67.9	65.6	63.9	58.8	59.0	60.7	61.1	61.8	61.7	61.7	59.4	50.8	20.0
(5000	72.5	72.7	70.2	69.7	70.8	66.3	61.5	59.1	57.5	52.3	52.5	54.1	54.9	55.5	55.4	55.2	52.9	43.7	10.3
(6300	65.6	65.7	63.2	62.8	63.8	59.3	54.4	52.0	50.3	44.7	44.7	46.6	47.6	48.4	48.2	48.0	45.1	33.9	.5
(8000	58.0	58.0	55.4	55.0	55.9	51.5	46.4	43.7	42.1	36.0	36.9	37.9	40.8	39.9	41.2	39.2	35.9	21.4	
(10000	49.2	49.1	46.5	46.1	46.9	42.3	36.1	33.1	31.7	24.9	29.1	28.2	34.0	32.4	34.4	28.7	24.2	8.9	
(12500	38.6	38.4	35.2	34.6	35.5	30.5	20.6	15.5	21.2	15.3	20.3	18.3	26.6	23.6	27.2	18.1	14.0		
(16000	23.9	22.4	15.5	14.8	16.3	13.7	5.2		9.1	5.7	9.1	8.4	17.5	15.0	17.5	7.4	3.9		
(20000	9.3	6.5											8.5	6.4	7.9				
(25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
F-14A AIRCRAFT																
ENG. TF30-P-412																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-006																
AIRCRAFT CODE 136																
OPERATION CODE 01013																
PROFILE VERSION A																
03 NOV 75																
PAGE F1																
METEROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 170 >180
200	103.3	103.3	101.1	101.2	101.7	97.7	92.4	88.8	83.4	83.6	85.4	87.2	87.6	87.6	86.4	84.4 76.3 56.3
250	101.1	101.1	98.9	99.0	99.4	95.4	90.2	86.7	81.2	81.4	83.1	84.9	85.3	85.3	84.2	82.1 74.1 54.1
315	98.8	98.8	96.5	96.7	97.1	93.1	87.9	86.4	84.3	78.9	79.0	80.7	82.5	82.9	81.9	79.8 71.9 51.9
400	96.5	96.5	94.2	94.3	94.8	90.7	85.6	84.0	81.9	76.5	76.6	78.3	80.1	80.4	79.5	77.5 69.5 49.5
500	94.1	94.1	91.8	91.9	92.4	88.3	83.2	81.5	79.4	74.1	74.2	75.8	77.5	77.8	77.0	75.0 67.1 47.1
630	91.6	91.6	89.3	89.3	89.9	85.7	80.6	78.9	76.9	71.6	71.6	73.3	74.9	75.2	74.4	72.5 64.6 44.6
800	89.0	89.0	86.6	86.6	87.2	83.0	78.0	76.3	74.2	69.0	68.9	70.6	72.2	72.4	71.8	69.8 62.0 42.0
1000	86.2	86.3	83.9	83.8	84.5	80.2	75.3	73.4	71.4	66.2	66.2	67.8	69.3	69.5	69.0	67.1 59.3 39.3
1250	83.3	83.4	81.0	80.9	81.6	77.2	72.3	70.4	68.5	63.3	63.3	64.9	66.4	66.5	66.0	64.1 56.4 36.4
1600	80.2	80.3	77.8	77.7	78.4	74.0	69.2	67.2	65.3	60.3	60.3	61.8	63.3	63.4	62.9	61.0 53.3 33.3
2000	76.8	76.9	74.5	74.3	75.1	70.6	65.9	63.8	62.0	57.0	57.1	58.6	60.2	60.1	60.5	57.6 50.0 30.0
2500	73.2	73.3	70.8	70.6	71.4	66.9	62.2	60.1	58.4	53.5	53.7	55.0	56.8	56.6	57.1	54.0 46.4 26.4
3150	69.2	69.3	66.8	66.5	67.4	62.9	58.2	56.1	54.4	49.7	50.1	51.2	53.1	52.8	53.4	50.0 42.4 22.4
4000	64.7	64.8	62.4	62.0	62.9	58.4	53.8	51.6	50.0	45.5	46.1	46.9	48.5	48.3	47.8	45.6 37.9 17.9
5000	59.7	59.7	57.3	56.9	57.8	53.4	48.7	46.5	45.1	40.8	41.6	42.0	44.5	44.0	44.7	43.0 40.8 33.0
6300	53.9	53.9	51.6	51.2	52.0	47.7	43.0	40.8	39.7	35.7	36.7	36.8	39.0	39.0	39.8	37.8 35.5 27.4
8000	47.5	47.4	45.1	44.7	45.4	41.4	36.8	34.7	34.3	31.0	32.4	32.1	35.6	34.6	35.6	32.8 30.5 21.7 1.7
10000	40.3	40.0	38.0	37.5	38.0	34.7	30.2	28.3	29.0	26.4	28.0	27.4	31.4	30.2	31.4	27.9 25.7 16.0
12500	32.7	32.2	30.4	29.9	30.2	28.0	23.7	22.0	23.8	21.6	23.4	22.9	27.0	25.7	27.0	23.1 21.1 10.7
16000	25.4	24.8	23.0	22.6	22.6	21.6	17.7	16.1	18.6	16.8	18.5	18.2	22.2	21.0	22.2	18.4 16.4 5.8
20000	18.6	17.9	16.1	15.7	15.5	15.3	11.8	10.3	13.1	11.6	13.1	13.1	16.9	16.0	17.1	13.5 11.5 1.3
25000	11.8	11.3	9.2	9.0	8.5	8.9	5.6	4.3	7.3	6.0	7.2	7.7	11.2	10.7	11.6	8.6 6.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(F-14A AIRCRAFT																				
(ENG. TF30-P-412																				
(GROUND RUNUP																				
(OPERATIONS:																				
(IDLE, 70% RPM																				
(SINGLE ENGINE																				
(METEOROLOGY:																				
(TEMP = 59 F																				
(BAR PRESS = 29.92 IN HG																				
(REL HUMID = 70 %																				
(DELTA N = -3.0 DB																				
(AIRCRAFT CODE 136																				
(OPERATION CODE 010.3																				
(PROFILE VERSION A																				
(03 NOV 75																				
(PAGE 61																				
IDENTIFICATION:																				
(OMEGA 8.2																				
(TEST 74-004-006																				
(RUN 01																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	107.0	107.5	105.0	104.8	105.9	101.3	96.3	94.4	91.9	86.4	86.9	88.5	89.4	89.9	89.8	89.1	87.0	79.7	59.7	
250	104.8	105.2	102.7	102.6	103.7	99.0	94.0	92.1	89.6	84.2	84.6	86.2	87.1	87.6	87.5	86.8	84.8	77.4	57.4	
315	102.5	103.0	100.4	100.3	101.4	96.7	91.8	89.8	87.3	81.9	82.3	83.9	84.7	85.2	85.1	84.5	82.5	75.2	55.2	
400	100.2	100.6	98.1	97.9	99.1	94.3	89.4	87.4	84.9	79.5	79.9	81.5	82.2	82.7	82.6	82.1	80.2	72.9	52.9	
500	97.8	98.2	95.7	95.4	96.7	91.8	87.0	85.0	82.5	77.1	77.4	79.0	79.7	80.1	80.1	79.6	77.7	70.5	50.5	
630	95.3	95.7	93.1	92.9	94.1	89.2	84.5	82.4	79.9	74.6	74.8	76.4	77.1	77.5	77.4	77.1	75.2	68.0	48.0	
800	92.7	93.1	90.5	90.2	91.5	86.5	81.8	79.7	77.3	71.9	72.2	73.8	74.3	74.7	74.7	74.4	72.5	65.4	45.4	
1000	89.9	90.4	87.7	87.4	88.8	83.7	79.1	76.9	74.5	69.2	69.4	71.0	71.5	71.8	71.9	71.6	69.7	62.6	42.6	
1250	87.0	87.5	84.8	84.5	85.8	80.7	76.2	73.9	71.5	66.3	66.5	68.0	68.6	68.8	68.9	68.7	66.8	59.7	39.7	
1500	83.9	84.4	81.7	81.3	82.7	77.6	73.0	70.7	68.4	63.3	63.5	65.0	65.5	65.7	65.8	65.6	63.6	56.6	36.6	
2000	80.5	81.1	78.4	77.9	79.4	74.2	69.7	67.3	65.0	60.0	60.4	61.7	62.3	62.5	62.7	62.3	60.3	53.3	33.3	
2500	76.9	77.4	74.7	74.2	75.7	70.5	66.1	63.6	61.4	56.5	57.0	58.2	58.9	58.9	59.2	58.7	56.7	49.7	29.7	
3150	72.9	73.4	70.7	70.1	71.7	66.4	62.1	59.5	57.5	52.7	53.4	54.3	55.3	55.1	55.5	54.8	52.7	45.7	25.7	
4000	67.7	68.1	65.5	64.9	66.3	61.2	56.8	54.3	52.5	47.9	48.7	49.4	50.8	50.5	51.0	50.0	47.8	40.6	20.6	
5000	61.9	62.2	59.6	59.1	60.4	55.5	51.0	48.6	47.0	42.6	43.5	43.9	45.8	45.3	45.9	44.6	42.4	35.0	15.0	
6300	55.4	55.6	53.1	52.6	53.7	49.1	44.5	42.2	40.9	36.9	38.0	38.1	40.6	39.9	40.7	38.8	36.5	28.8	8.8	
8000	48.2	48.2	45.9	45.4	46.3	42.1	37.5	35.4	35.0	31.6	33.1	32.7	36.1	35.1	36.0	33.3	31.1	22.4	2.4	
10000	40.3	40.0	38.0	37.5	38.0	34.7	30.2	28.3	29.0	26.4	28.0	27.4	31.4	30.2	31.4	27.9	25.7	16.0		
12500	32.7	32.2	30.4	29.9	30.2	28.0	23.7	22.0	23.8	21.6	23.4	22.9	27.0	25.7	27.0	23.1	21.1	10.7		
15000	25.4	24.8	23.0	22.6	22.6	21.6	17.7	16.1	18.6	16.8	18.5	18.2	22.2	21.0	22.2	18.4	16.4	5.8		
20000	18.6	17.9	16.1	15.7	15.5	15.3	11.8	10.3	13.1	11.6	13.1	13.1	16.9	16.0	17.1	13.5	11.5	1.3		
25000	11.8	11.3	9.2	9.0	8.5	8.9	5.6	4.3	7.3	6.0	7.2	7.7	11.2	10.7	11.6	8.6	6.6			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT: (OPERATION: (METEOROLOGY: (IDENTIFICATION:
 (F-14A AIRCRAFT (IDLE, 70% RPM () TEMP = 59 F () OMEGA 8.2
 (ENG. TF30-P-412 (SINGLE ENGINE () BAR PRESS = 29.92 IN HG () TEST 74-004-006
 (GROUND RUNUP (() REL HUMID = 70 % () RUN 01
 ((() DELTA N = -3.0 DB () AIRCRAFT CODE 136
 ((() () OPERATION CODE 01013
 ((() () PROFILE VERSION A
 ((() () 03 NOV 75
 ((() () PAGE J1
 (

	P=PNLT											T=ALT												
	A=AL																							
	20	30	40	50	60	70	80	90	100	110	120		20	30	40	50	60	70	80	90	100	110	120	
	NOISE LEVEL IN PNDB OR DBA																							
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																	IDENTIFICATION: OMEGA 8.2 TEST 74-004-006 RUN 02
NOISE SOURCE/SUBJECT: F-14A AIRCRAFT ENG. TF30-P-412 GROUND RUNUP																	AIRCRAFT CODE 136 OPERATION CODE 02019 PROFILE VERSION A 03 NOV 75 PAGE C2
(OPERATION: ENGINE RUNUP, 80% RPM SINGLE ENGINE																	METEOROLOGY: TEMP = 59 F BAR PRESS = 29.92 IN HG REL HUMID = 70 % DELTA N = -3.0 DB
BAND CENTER FREQ (HZ)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
50	71	72	70	73	70	71	72	71	69	71	72	73	72	75	77	80	79 69 59
63	72	72	72	74	72	72	74	72	72	74	73	74	75	78	80	82	79 69 59
80	73	75	71	74	75	74	74	76	73	76	75	77	80	80	83	84	78 68 58
100	79	80	77	80	79	80	78	77	76	77	77	78	80	82	85	85	77 67 57
125	77	78	75	79	79	76	73	73	74	75	77	77	81	81	84	83	73 63 53
160	78	79	78	79	76	74	73	73	76	76	78	80	81	82	84	81	74 64 54
200	77	77	76	75	73	73	75	74	75	76	77	78	80	82	81	79	73 63 53
250	78	78	75	74	75	75	76	74	75	76	77	77	78	80	80	77	73 63 53
315	79	80	73	76	76	75	75	74	76	76	77	77	79	80	80	74	71 61 51
400	80	80	74	78	77	76	76	74	74	74	76	77	79	80	79	73	70 60 50
500	82	81	78	79	78	78	77	74	74	73	74	75	76	78	75	72	67 57 47
630	82	81	79	80	80	78	77	75	73	72	73	75	76	76	75	72	69 59 49
800	80	79	77	78	79	78	74	73	71	70	70	72	72	73	69	66	63 53 43
1000	79	80	76	79	80	76	73	72	69	69	68	71	70	71	67	65	62 52 42
1250	82	82	79	81	81	79	75	75	71	69	68	71	69	71	68	66	64 54 44
1600	87	87	84	87	86	85	81	79	73	72	70	73	71	72	71	69	68 58 48
2000	89	89	86	89	87	86	84	78	75	72	72	73	72	72	73	70	68 58 48
2500	98	96	93	96	94	92	90	86	83	78	80	79	78	77	77	76	75 65 55
3150	98	97	96	99	97	96	95	91	88	82	83	82	81	81	80	78	78 68 58
4000	90	89	88	91	90	89	87	83	81	77	80	83	80	81	79	75	72 62 52
5000	92	89	88	90	88	88	85	81	78	75	75	77	76	77	75	72	69 59 49
6300	89	88	87	89	88	87	84	81	77	74	75	78	79	78	76	73	69 59 49
8000	86	84	82	85	84	83	80	76	74	70	74	75	77	78	75	71	66 56 46
10000	82	80	79	81	80	79	76	72	69	66	70	72	73	74	70	66	61 51 41
OVERALL	103	101	100	102	101	100	98	94	92	89	90	91	92	93	93	92	87 77 67

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																	IDENTIFICATION:		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	OMEGA 8.2		
NOISE SOURCE/SUBJECT:																	TEST 74-004-006		
(F-14A AIRCRAFT																	RUN 02		
(ENGINE RUNUP, 80% RPM																	AIRCRAFT CODE 136		
(SINGLE ENGINE																	OPERATION CODE 02019		
(																	PROFILE VERSION A		
(																	03 NOV 75		
(																	PAGE E2		
ANGLE (DEGREES)																			
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.1	119.9	118.9	121.6	120.5	119.3	117.7	114.2	111.3	106.9	108.0	108.2	106.5	107.2	106.2	103.6	103.2	93.0	82.7
250	118.8	117.6	116.5	119.3	118.2	117.0	115.4	111.9	109.0	104.6	105.7	105.8	104.2	104.8	103.9	101.3	100.9	90.6	80.4
315	116.4	115.2	114.2	116.9	115.8	114.6	113.0	109.6	106.7	102.2	103.3	103.4	101.8	102.4	101.5	98.9	98.5	88.3	78.0
400	113.9	112.7	111.7	114.5	113.3	112.1	110.6	107.1	104.2	99.8	100.9	100.8	99.4	99.9	99.1	96.5	96.0	85.8	75.4
500	111.3	110.1	109.1	111.9	110.7	109.5	108.0	104.5	101.6	97.2	98.3	98.1	96.8	97.2	96.5	93.9	93.5	83.2	72.8
630	108.6	107.4	106.3	109.1	108.0	106.8	105.2	101.8	98.9	94.4	95.5	95.3	94.0	94.4	93.8	91.2	90.7	80.5	70.0
800	105.8	104.5	103.4	106.2	105.0	103.9	102.3	98.9	96.0	91.6	92.6	92.4	91.1	91.4	90.9	88.3	87.9	77.5	66.9
1000	102.8	101.4	100.3	103.1	101.9	100.7	99.2	95.7	92.8	88.5	89.5	89.2	87.9	88.3	87.8	85.2	84.8	74.4	63.7
1250	99.6	98.0	96.9	99.7	98.5	97.3	95.8	92.3	89.5	85.1	86.1	85.8	84.6	84.9	84.4	81.8	81.4	71.0	60.1
1600	96.1	94.3	93.2	95.9	94.8	93.6	92.0	88.6	85.7	81.4	82.4	82.1	80.8	81.2	80.7	78.1	77.8	67.2	56.1
2000	92.3	90.5	89.1	91.8	90.7	89.5	87.9	84.6	81.7	77.4	78.4	78.1	76.8	77.2	76.7	74.1	73.7	63.0	51.3
2500	88.1	86.3	84.5	87.3	86.1	84.9	83.3	80.0	77.1	72.8	73.8	73.6	72.3	72.7	72.2	69.6	69.1	58.1	45.8
3150	83.4	81.6	79.5	82.1	81.0	79.7	78.1	74.8	71.9	67.7	68.6	68.5	67.3	67.6	67.1	64.7	64.0	52.7	39.3
4000	77.8	76.0	73.8	76.4	75.0	73.4	71.7	68.4	65.6	61.6	62.6	62.5	61.8	62.4	61.5	59.0	58.1	45.9	31.1
5000	71.5	69.8	67.5	70.0	68.6	66.8	64.9	61.7	58.8	55.2	56.2	56.7	55.1	57.2	55.8	52.7	51.0	38.0	18.6
6300	64.4	62.8	60.2	62.8	61.3	59.5	57.6	54.3	51.3	47.4	48.6	49.9	50.2	51.4	49.7	45.8	42.8	27.3	6.1
8000	56.7	55.2	52.3	55.0	54.2	52.4	49.5	46.2	43.4	41.8	42.5	44.3	44.9	46.4	44.7	40.6	35.9	13.3	
10000	48.6	47.4	44.3	46.6	46.1	43.9	41.6	39.1	36.4	35.1	36.0	37.9	39.1	41.0	38.7	32.6	27.0		
12500	41.6	40.5	37.0	39.4	38.7	36.9	34.7	30.9	28.6	27.9	28.9	30.6	32.1	34.3	30.9	24.3	17.5		
16000	34.0	32.9	28.0	30.9	30.3	27.8	25.6	21.0	19.0	18.0	19.3	22.5	23.5	27.9	23.3	15.8	8.1		
20000	25.4	23.4	17.1	20.6	19.4	16.1	14.7	7.8	7.3	8.2	7.3	11.4	15.4	18.2	14.0	7.3			
25000	13.3	9.5	6.1	10.3	8.5	4.5	3.8												
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										IDENTIFICATION:										
F-14A AIRCRAFT										) OMEGA 8.2										
ENG. TF30-P-412										) TEST 74-004-006										
GROUND RUNUP										) RUN 02										
) OPERATION:										) AIRCRAFT CODE 136										
) ENGINE RUNUP, 80% RPM										) TEMP = 59 F										
) SINGLE ENGINE										) BAR PRESS = 29.92 IN HG										
) DELTA N = -3.0 DB										) REL HUMID = 70 %										
										) 03 NOV 75										
										) PAGE F2										
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	105.9	104.3	102.7	105.5	103.9	102.8	100.9	97.1	94.0	89.6	91.1	91.7	91.0	91.5	90.1	87.1	85.5	75.5	65.5	
250	103.7	102.0	100.4	103.2	101.6	100.5	98.6	94.8	91.7	87.3	88.7	89.3	88.6	89.2	87.8	84.9	83.2	73.2	63.2	
315	101.3	99.7	98.1	100.8	99.3	98.1	96.3	92.4	89.3	84.9	86.4	86.9	86.2	86.7	85.4	82.5	80.9	70.9	60.9	
400	98.9	97.2	95.6	98.4	96.8	95.6	93.8	90.0	86.9	82.5	83.9	84.4	83.7	84.3	83.0	80.1	78.4	68.4	58.4	
500	96.3	94.7	93.1	95.8	94.3	93.0	91.2	87.4	84.3	80.0	81.3	81.9	81.2	81.7	80.5	77.6	75.9	65.9	55.9	
630	93.7	92.1	90.4	93.2	91.6	90.3	88.5	84.8	81.7	77.3	78.7	79.1	78.5	79.0	77.9	75.0	73.3	63.3	53.3	
800	90.9	89.3	87.6	90.3	88.8	87.5	85.7	81.9	78.8	74.6	75.9	76.3	75.7	76.2	75.2	72.3	70.6	60.6	50.6	
1000	87.9	86.3	84.6	87.3	85.8	84.5	82.6	78.9	75.8	71.7	72.9	73.3	72.8	73.4	72.3	69.4	67.7	57.7	47.7	
1250	84.7	83.2	81.3	84.1	82.5	81.2	79.4	75.7	72.6	68.6	69.7	70.2	69.8	70.4	69.3	66.4	64.6	54.6	44.6	
1600	81.3	79.8	77.9	80.6	79.1	77.7	75.8	72.2	69.1	65.3	66.4	66.9	66.7	67.3	66.2	63.2	61.4	51.4	41.4	
2000	77.6	76.1	74.1	76.8	75.3	73.9	72.0	68.4	65.4	61.8	62.8	63.5	63.5	64.1	63.0	59.9	57.9	47.9	37.9	
2500	73.6	72.2	70.0	72.6	71.2	69.7	67.8	64.3	61.4	58.2	59.0	59.9	59.9	60.7	59.4	56.2	54.1	44.1	34.1	
3150	69.2	67.8	65.6	68.1	66.8	65.3	63.2	59.9	57.0	54.2	54.9	56.0	56.2	56.9	55.5	52.4	50.0	40.0	30.0	
4000	64.4	63.1	60.7	63.2	62.1	60.4	58.2	55.2	52.3	50.0	50.5	51.9	52.1	52.9	51.3	48.1	45.6	35.6	25.6	
5000	59.1	58.0	55.5	57.8	57.0	55.2	52.9	50.2	47.3	45.4	45.8	47.4	47.7	48.5	46.7	43.6	40.8	30.8	20.8	
6300	53.4	52.6	50.0	52.2	51.6	49.8	47.3	45.0	42.2	40.6	40.9	42.7	43.0	43.9	42.0	38.8	35.8	25.8	15.8	
8000	48.0	47.2	44.6	46.6	46.3	44.5	42.0	40.0	37.6	36.4	36.8	38.6	39.2	40.1	38.2	34.9	31.6	21.6	11.6	
10000	42.6	41.9	39.3	41.1	41.0	39.2	36.9	35.1	32.9	32.1	32.6	34.4	35.2	36.1	34.2	30.8	27.3	17.3	7.3	
12500	37.3	36.5	34.0	35.6	35.5	33.8	31.8	30.0	28.2	27.5	28.2	29.8	30.8	31.8	30.0	26.6	22.8	12.8	2.8	
16000	31.8	31.0	28.4	29.9	29.7	28.3	26.5	24.6	23.2	22.6	23.4	24.9	26.1	27.2	25.5	22.2	18.1	8.1		
20000	26.0	25.1	22.5	23.9	23.6	22.3	20.8	18.9	17.8	17.3	18.3	19.6	21.0	22.2	20.8	17.5	13.2	3.2		
25000	19.6	18.8	16.1	17.4	17.0	15.9	14.7	12.7	11.9	11.7	12.7	13.9	15.4	16.7	15.7	12.9	8.1			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
F-14A AIRCRAFT										TEMP = 59 F									
ENG. TF30-P-412										BAR PRESS = 29.92 IN HG									
GROUND RUNUP										REL HUMID = 70 %									
										DELTA N = -3.0 DR									
DISTANCE (FEET)										ANGLE (DEGREES)									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.5	105.7	104.5	107.4	106.0	104.7	103.1	99.3	96.1	91.1	92.4	92.7	91.0	91.5	90.1	87.1	87.1	77.1	67.1
250	105.2	103.4	102.2	105.1	103.7	102.4	100.8	97.0	93.8	88.9	90.1	90.4	88.6	89.2	87.8	84.9	84.9	74.9	64.9
315	102.8	101.1	99.9	102.7	101.3	100.1	98.4	94.6	91.4	86.5	87.7	88.0	86.2	86.7	85.4	82.5	82.5	72.5	62.5
400	100.4	98.7	97.4	100.2	98.9	97.6	95.9	92.2	89.0	84.1	85.3	85.5	83.7	84.3	83.0	80.1	80.1	70.1	60.1
500	97.8	96.1	94.9	97.7	96.3	95.0	93.3	89.6	86.4	81.5	82.7	82.9	81.2	81.7	80.5	77.6	77.6	67.6	57.6
630	95.2	93.5	92.2	95.0	93.6	92.3	90.7	86.9	83.7	78.9	80.0	80.2	78.5	79.0	77.9	75.0	75.0	65.0	55.0
800	92.4	90.7	89.4	92.2	90.8	89.5	87.8	84.1	80.9	76.1	77.2	77.4	75.7	76.2	75.2	72.3	72.3	62.3	52.3
1000	89.4	87.8	86.4	89.2	87.8	86.4	84.8	81.1	77.9	73.2	74.3	74.4	72.8	73.4	72.3	69.4	69.4	59.4	49.4
1250	86.3	84.6	83.1	85.9	84.6	83.2	81.5	77.9	74.7	70.1	71.1	71.2	69.8	70.4	69.3	66.4	66.3	56.3	46.3
1500	82.8	81.2	79.7	82.4	81.1	79.7	77.9	74.4	71.2	66.8	67.8	68.0	66.7	67.3	66.2	63.2	63.0	53.0	43.0
2000	79.1	77.5	75.9	78.7	77.4	75.9	74.1	70.6	67.5	63.4	64.2	64.6	63.5	64.1	63.0	59.9	59.6	49.6	39.6
2500	75.1	73.6	71.8	74.5	73.3	71.7	69.9	66.5	63.4	59.7	60.4	60.9	59.9	60.7	59.4	56.2	55.8	45.8	35.8
3150	70.7	69.2	67.4	70.0	68.9	67.2	65.3	62.1	59.1	55.8	56.3	57.0	56.2	56.9	55.5	52.4	51.7	41.7	31.7
4000	65.6	64.2	62.2	64.7	63.7	62.0	59.9	57.0	54.0	51.2	51.6	52.7	52.1	52.9	51.3	48.1	47.0	37.0	27.0
5000	60.8	58.8	56.6	59.0	58.2	56.4	54.1	51.5	48.6	46.3	46.6	48.0	47.7	48.5	46.7	43.6	41.8	31.8	21.8
6300	54.1	53.1	50.7	52.9	52.4	50.6	48.1	45.8	43.0	41.3	41.5	43.1	43.0	43.9	42.0	38.8	36.5	26.5	16.5
8000	48.3	47.5	45.0	47.0	46.7	44.9	42.4	40.5	38.0	36.7	37.1	38.8	39.2	40.1	38.2	34.9	31.9	21.9	11.9
10000	42.6	41.9	39.3	41.1	41.0	39.2	36.9	35.1	32.9	32.1	32.6	34.4	35.2	36.1	34.2	30.8	27.3	17.3	7.3
12500	37.3	36.5	34.0	35.6	35.5	33.8	31.8	30.0	28.2	27.5	28.2	29.8	30.8	31.8	30.0	26.6	22.8	12.8	2.8
15000	31.8	31.0	28.4	29.9	29.7	28.3	26.5	24.6	23.2	22.6	23.4	24.9	26.1	27.2	25.5	22.2	18.1	8.1	
20000	26.0	25.1	22.5	23.9	23.6	22.3	20.8	18.9	17.8	17.3	18.3	19.6	21.0	22.2	20.8	17.5	13.2	3.2	
25000	19.6	18.8	16.1	17.4	17.0	15.9	14.7	12.7	11.9	11.7	12.7	13.9	15.4	16.7	15.7	12.9	8.1		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:)																			
F-14A AIRCRAFT (MILITARY POWER, 102% RPM) TEMP = 59 F)																			
ENG. TF30-P-412 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG)																			
GROUND RUNUP () REL HUMID = 70 %)																			
() DELTA N = 0.0 DB)																			
(BAND CENTER)																			
(FREQ (HZ)) ANGLE (DEGREES))																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170 >180	
50	81	80	80	80	82	82	82	84	85	86	87	89	95	101	106	107	102	92	82
63	81	81	83	83	83	84	86	86	87	89	91	94	100	105	110	110	102	92	82
80	84	84	85	84	85	86	87	88	89	92	94	96	102	109	114	113	105	95	85
100	89	89	90	90	90	91	90	92	93	96	97	100	106	115	119	118	106	96	86
125	89	90	91	91	91	91	92	93	94	97	98	101	107	116	121	120	105	95	85
160	92	93	94	93	92	93	93	94	95	98	100	104	109	115	123	121	105	95	85
200	93	94	96	93	93	93	95	96	96	98	101	105	110	115	119	121	106	96	86
250	94	94	95	93	94	94	95	96	97	99	102	105	112	117	118	121	103	93	83
315	96	95	94	94	95	95	95	96	97	100	102	106	110	118	120	117	100	90	80
400	95	94	93	95	95	94	95	96	97	98	102	106	111	115	118	115	97	87	77
500	92	93	94	95	95	95	95	96	97	99	102	105	110	114	115	113	92	82	72
630	91	93	95	95	95	95	95	96	97	98	102	105	108	112	113	109	85	75	65
800	89	91	93	95	95	95	94	95	96	98	100	103	106	108	109	105	82	72	62
1000	88	90	93	94	94	94	93	94	95	97	99	101	103	105	107	101	80	70	60
1250	88	89	92	93	92	93	93	94	95	96	97	98	100	103	104	101	79	69	59
1600	88	89	92	92	93	93	92	93	94	95	96	98	100	103	103	102	77	67	57
2000	96	95	92	92	92	92	92	92	93	95	98	99	101	103	102	101	74	64	54
2500	88	88	89	90	91	91	90	93	91	95	98	100	101	101	101	98	74	64	54
3150	86	87	89	89	90	90	90	92	91	94	97	100	100	100	100	97	73	63	53
4000	86	87	87	88	89	89	89	91	90	93	95	98	98	99	99	96	72	62	52
5000	83	84	86	87	88	88	88	90	90	93	95	96	96	96	97	95	71	61	51
6300	80	81	82	83	84	84	85	87	86	90	92	94	94	94	94	92	68	58	48
8000	76	77	79	80	81	81	81	84	83	86	88	91	91	91	91	90	68	58	48
10000	71	73	75	76	77	77	78	79	79	83	84	87	87	89	90	88	68	58	48
OVERALL	104	105	105	105	106	106	106	107	108	110	113	115	120	126	129	128	114	104	94

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			IDENTIFICATION:	
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			OMEGA 8.2	
NOISE SOURCE/SUBJECT:																			TEST 74-004-006	
(F-14A AIRCRAFT																			RUN 03	
(MILITARY POWER, 102% RPM																			AIRCRAFT CODE 136	
(SINGLE ENGINE																			OPERATION CODE 01004	
(PROFILE VERSION A	
(03 NOV 75	
(PAGE 03	
METEOROLOGY:																				
(TEMP = 59 F																				
(BAR PRESS = 29.92 IN HG																				
(REL HUMID = 70 %																				
(DELTA N = 0.0 DB																				
ANGLE (DEGREES)																				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																				
DISTANCE (FEET)																				
200	118.0	117.8	117.0	117.8	118.5	118.8	120.4	120.0	122.8	125.4	128.0	130.0	134.3	136.4	135.1	117.9	107.9	97.8		
250	115.8	115.6	115.6	116.2	116.2	116.6	118.2	117.8	120.5	123.2	125.8	127.8	132.2	134.3	133.0	115.8	105.8	95.5		
315	113.6	113.4	113.4	113.3	113.9	114.0	114.3	115.9	115.5	118.3	120.9	123.5	125.6	130.0	132.1	130.9	103.7	93.5		
400	111.3	111.1	111.0	111.0	111.5	111.6	111.9	113.5	113.1	115.9	118.6	121.1	123.4	127.9	130.0	128.7	101.5	91.2		
500	108.9	108.7	108.6	108.6	109.1	109.2	109.5	111.0	110.6	113.4	116.2	118.7	121.1	125.6	127.7	126.5	109.2	99.1		
630	106.5	106.2	106.2	106.1	106.6	106.7	106.9	108.5	108.1	110.9	113.5	116.1	118.7	123.3	125.4	124.0	106.8	96.6		
800	103.9	103.6	103.6	103.5	103.9	104.0	104.1	105.8	105.5	108.2	111.0	113.4	116.3	120.9	123.0	121.4	104.2	94.0		
1000	101.1	100.9	100.8	100.7	101.1	101.2	101.3	103.0	102.7	105.4	108.2	110.5	113.7	118.4	120.5	118.6	101.4	91.1		
1250	98.2	97.9	97.8	97.8	98.1	98.2	98.3	99.9	99.7	102.3	105.1	107.5	111.0	115.4	117.6	115.6	98.4	88.0		
1500	95.0	94.7	94.6	94.6	94.9	95.1	95.1	96.6	96.6	99.0	101.8	104.3	108.1	112.2	114.8	112.4	95.1	84.6		
2000	91.6	91.3	91.2	91.2	91.5	91.8	91.7	93.2	93.2	95.6	98.4	101.2	105.1	109.1	111.8	109.4	91.5	81.0		
2500	88.8	87.5	87.4	87.7	87.9	88.1	87.9	89.5	89.6	92.0	94.8	97.6	101.4	105.4	108.0	105.6	87.5	76.9		
3150	85.7	83.4	83.5	83.9	83.9	84.3	84.1	85.4	85.8	88.0	91.0	93.6	97.4	101.5	103.8	101.3	82.9	72.3		
4000	79.0	78.7	79.2	79.6	79.6	80.0	79.8	81.1	81.5	83.6	86.7	89.2	93.0	97.1	99.0	96.8	77.8	67.1		
5000	73.8	73.5	74.4	74.9	75.1	75.3	75.0	76.3	76.7	78.8	81.9	84.4	88.2	92.3	93.9	92.1	72.4	61.6		
6300	68.0	67.9	69.4	69.8	70.1	70.3	69.9	71.2	71.7	73.8	76.9	79.4	83.3	87.4	89.0	87.1	66.9	55.7		
8000	62.8	63.6	65.2	65.6	65.7	65.9	65.7	66.9	67.5	69.5	72.7	75.4	79.5	83.7	85.4	83.6	63.4	51.9		
10000	58.4	59.1	60.6	61.0	61.1	61.4	61.1	62.4	63.0	65.2	68.2	71.2	75.4	79.8	81.6	79.8	59.8	47.8		
12500	53.3	54.2	55.6	56.3	56.2	56.3	56.0	57.6	58.1	60.4	63.5	66.6	71.0	75.6	77.4	75.7	55.8	43.1		
16000	48.0	48.8	50.0	50.8	50.7	50.7	50.5	52.2	52.8	55.1	58.3	61.5	66.2	70.9	72.9	71.2	51.3	38.1		
20000	41.1	42.0	43.6	44.5	44.4	44.3	44.3	46.0	46.6	49.2	52.6	55.9	60.9	65.8	68.2	66.4	46.2	32.2		
25000	33.9	34.4	36.3	36.9	36.9	36.7	36.9	38.6	39.2	42.1	46.0	49.7	54.8	60.1	63.0	60.9	40.3	23.7		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-14A AIRCRAFT																			
(ENG. TF30-P-412																			
(GROUND RUNUP																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-006																			
) RUN 03																			
) AIRCRAFT CODE 136																			
) OPERATION CODE 03004																			
) PROFILE VERSION A																			
) 03 NOV 75																			
) PAGE E3																			
METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	120.9	119.7	117.8	117.8	118.4	118.5	118.8	120.4	120.0	122.8	125.4	128.0	130.0	134.3	136.4	135.1	117.9	107.9	97.8
250	118.7	117.5	115.6	115.6	116.2	116.6	118.2	117.8	120.5	123.2	125.8	127.8	132.2	134.3	133.0	115.8	105.8	95.6	
315	116.4	115.3	113.4	113.3	113.9	114.0	114.3	115.9	115.5	118.3	120.9	123.5	125.6	130.0	132.1	130.9	113.8	103.7	93.5
400	114.1	113.0	111.0	111.0	111.5	111.6	111.9	113.5	113.1	115.9	118.6	121.1	123.4	127.9	130.0	128.7	111.6	101.5	91.2
500	111.8	110.6	108.7	108.6	109.1	109.2	109.5	111.0	110.6	113.4	116.2	118.7	121.1	125.6	127.7	126.5	109.2	99.1	88.8
630	109.3	108.1	106.2	106.1	106.6	106.7	106.9	108.5	108.1	110.9	113.6	116.1	118.7	123.3	125.4	124.0	106.8	96.6	86.2
800	106.7	105.5	103.6	103.5	103.9	104.0	104.1	105.8	105.5	108.2	111.0	113.4	116.3	120.9	123.0	121.4	104.2	94.0	83.5
1000	104.0	102.8	100.8	100.7	101.1	101.2	101.3	103.0	102.7	105.4	108.2	110.5	113.7	118.4	120.5	118.6	101.4	91.1	80.5
1250	101.0	99.8	97.8	97.8	98.1	98.2	98.3	99.9	99.7	102.3	105.1	107.5	111.0	115.4	117.6	115.6	98.4	88.0	77.2
1600	97.9	96.7	94.6	94.6	94.9	95.1	95.1	96.6	96.6	99.0	101.8	104.3	108.1	112.2	114.8	112.4	95.1	84.6	73.5
2000	94.5	93.3	91.2	91.2	91.5	91.8	91.7	93.2	93.2	95.6	98.4	101.2	105.1	109.1	111.8	109.4	91.5	81.0	70.3
2500	90.7	89.5	87.4	87.7	87.9	88.1	87.9	89.5	89.5	92.0	94.8	97.6	101.4	105.4	108.0	105.6	87.5	76.9	66.1
3150	86.5	85.3	83.5	83.9	83.9	84.3	84.1	85.4	85.8	88.0	91.0	93.6	97.4	101.5	103.8	101.3	82.9	72.3	61.4
4000	81.2	80.2	79.2	79.6	79.6	80.0	79.8	81.1	81.5	83.6	86.7	89.2	93.0	97.1	99.0	96.8	77.8	67.1	55.9
5000	75.5	74.7	74.4	74.9	75.1	75.3	75.0	76.3	76.7	78.8	81.9	84.4	88.2	92.3	93.9	92.1	72.4	61.5	49.8
6300	69.2	68.6	69.4	69.8	70.1	70.3	69.9	71.2	71.7	73.8	76.9	79.4	83.3	87.4	89.0	87.1	66.9	55.7	43.1
8000	63.4	64.0	65.2	65.6	65.7	65.9	65.7	66.9	67.5	69.5	72.7	75.4	79.5	83.7	85.4	83.6	63.4	51.9	38.5
10000	58.4	59.1	60.6	61.0	61.1	61.4	61.1	62.4	63.0	65.2	68.2	71.2	75.4	79.8	81.6	79.8	59.8	47.8	33.7
12500	53.3	54.2	55.6	56.3	56.3	56.0	56.0	57.6	58.1	60.4	63.5	66.6	71.0	75.6	77.4	75.7	55.8	43.1	28.3
16000	48.0	48.8	50.0	50.8	50.7	50.7	50.5	52.2	52.8	55.1	58.3	61.5	66.2	70.9	72.9	71.2	51.3	38.1	20.4
20000	41.1	42.0	43.6	44.5	44.4	44.3	44.3	46.0	46.6	49.2	52.6	55.9	60.9	65.8	68.2	66.4	46.2	32.2	7.7
25000	33.9	34.4	36.3	36.9	36.9	36.7	36.9	38.6	39.2	42.1	46.0	49.7	54.8	60.1	63.0	60.9	40.3	23.7	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-006																			
) RUN 03																			
) AIRCRAFT CODE 136																			
) OPERATION CODE 01004																			
) PROFILE VERSION A																			
) 03 NOV 75																			
) PAGE F3																			
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>190
(FEET)																			
200	103.8	103.9	104.8	105.3	105.6	105.8	105.6	107.1	107.1	109.4	112.0	114.3	117.2	121.1	122.9	121.3	103.6	93.6	83.6
250	101.7	101.8	102.7	103.2	103.5	103.7	103.4	104.9	105.0	107.2	109.9	112.2	115.1	119.0	120.9	119.2	101.5	91.5	81.5
315	99.5	99.6	100.5	101.0	101.3	101.5	101.2	102.8	102.8	105.1	107.7	110.0	113.0	116.9	118.8	117.2	99.5	89.5	79.5
400	97.3	97.4	98.3	98.8	99.1	99.3	99.0	100.5	100.6	102.8	105.5	107.8	110.9	114.8	116.7	115.1	97.4	87.4	77.4
500	95.0	95.1	96.1	96.6	96.8	97.1	96.8	98.2	98.4	100.6	103.2	105.6	108.7	112.7	114.6	112.9	95.2	85.2	75.2
630	92.7	92.8	93.8	94.3	94.5	94.8	94.4	95.9	96.1	98.2	100.9	103.3	106.5	110.5	112.4	110.6	92.8	82.8	72.8
800	90.3	90.4	91.4	91.9	92.2	92.4	92.1	93.5	93.7	95.9	98.5	100.9	104.2	108.2	110.1	108.2	90.4	80.4	70.4
1000	87.8	88.0	89.0	89.5	89.7	90.0	89.6	91.0	91.3	93.4	96.1	98.5	101.8	105.9	107.7	105.7	87.8	77.8	67.8
1250	85.2	85.4	86.5	87.0	87.2	87.5	87.1	88.5	88.8	90.8	93.5	96.0	99.3	103.3	105.2	103.1	85.0	75.0	65.0
1600	82.5	82.7	83.8	84.4	84.6	84.8	84.4	85.8	86.2	88.2	90.9	93.4	96.8	100.7	102.6	100.3	82.0	72.0	62.0
2000	79.6	79.9	81.1	81.8	81.9	82.1	81.7	83.0	83.5	85.4	88.2	90.7	94.2	98.0	99.8	97.4	78.9	68.9	58.9
2500	76.4	76.8	78.1	78.8	78.9	79.2	78.7	80.0	80.5	82.4	85.2	87.7	91.2	94.9	96.6	94.1	75.2	65.2	55.2
3150	72.8	73.4	74.9	75.6	75.7	76.0	75.4	76.7	77.3	79.1	81.9	84.4	87.9	91.5	93.1	90.4	71.0	61.0	51.0
4000	68.9	69.6	71.3	72.1	72.1	72.4	71.8	73.1	73.7	75.5	78.3	80.7	84.2	87.6	89.1	86.3	66.4	56.4	46.4
5000	64.5	65.4	67.3	68.1	68.1	68.4	67.7	69.0	69.7	71.5	74.2	76.6	80.0	83.4	84.7	81.8	61.6	51.6	41.6
6300	59.9	60.9	62.9	63.7	63.8	64.1	63.4	64.6	65.4	67.1	69.8	72.3	75.6	78.9	80.2	77.2	56.8	46.8	36.8
8000	55.7	56.9	58.9	59.7	59.7	60.0	59.3	60.6	61.3	63.1	65.8	68.4	71.9	75.3	76.7	73.8	53.7	43.7	33.7
10000	51.4	52.6	54.5	55.4	55.3	55.6	55.0	56.1	56.9	58.7	61.6	64.3	68.0	71.5	72.9	70.2	50.4	40.4	30.4
12500	46.9	47.9	49.7	50.6	50.6	50.8	50.2	51.4	52.1	53.9	57.0	59.8	63.6	67.3	68.8	66.3	46.9	36.9	26.9
16000	42.0	42.9	44.5	45.4	45.3	45.5	45.0	46.2	46.9	48.8	51.9	54.8	58.8	62.7	64.3	62.0	43.2	33.2	23.2
20000	36.7	37.4	38.8	39.6	39.5	39.7	39.3	40.5	41.2	43.1	46.3	49.3	53.5	57.6	59.4	57.4	39.3	29.3	19.3
25000	30.9	31.5	32.5	33.3	33.2	33.3	33.1	34.3	35.0	37.0	40.2	43.3	47.7	52.1	54.2	52.5	35.2	25.2	15.2
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(F-14A AIRCRAFT)																
(ENG. TF30-P-412)																
(GROUND RUNUP)																
IDENTIFICATION:																
) OMEGA 8.2																
) TEST 74-004-006																
) RUN 03																
) AIRCRAFT CODE 136																
) OPERATION CODE 01004																
) PROFILE VERSION A																
) 03 NOV 75																
) PAGE 63																
METEOROLOGY:																
) TEMP = 59 F																
) BAR PRESS = 29.92 IN HG																
) REL HUMID = 70 %																
) DELTA N = 0.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	106.6	105.8	104.8	105.3	105.6	105.8	105.6	107.1	107.1	109.4	112.0	114.3	117.2	121.1	122.9	121.3
250	104.5	103.7	102.7	103.2	103.5	103.7	103.4	104.9	105.0	107.2	109.9	112.2	115.1	119.0	120.9	119.2
315	102.3	101.5	100.5	101.0	101.3	101.5	101.2	102.8	102.8	105.1	107.7	110.0	113.0	116.9	118.8	117.2
400	100.1	99.3	98.3	98.8	99.1	99.3	99.0	100.5	100.6	102.8	105.5	107.8	110.9	114.8	116.7	115.1
500	97.9	97.1	96.1	96.5	96.8	97.1	96.8	98.2	98.4	100.6	103.2	105.6	108.7	112.7	114.6	112.9
630	95.5	94.8	93.8	94.3	94.5	94.8	94.4	95.9	96.1	98.2	100.9	103.3	106.5	110.5	112.4	110.6
800	93.1	92.4	91.4	91.9	92.2	92.4	92.1	93.5	93.7	95.9	98.5	100.9	104.2	108.2	110.1	108.2
1000	90.7	89.9	89.0	89.5	89.7	90.0	89.6	91.0	91.3	93.4	96.1	98.5	101.8	105.9	107.7	105.7
1250	88.0	87.3	86.5	87.0	87.2	87.5	87.1	88.5	88.8	90.8	93.5	96.0	99.3	103.3	105.2	103.1
1600	85.3	84.6	83.8	84.4	84.6	84.8	84.4	85.8	86.2	88.2	90.9	93.4	96.8	100.7	102.6	100.3
2000	82.4	81.8	81.1	81.8	81.9	82.1	81.7	83.0	83.5	85.4	88.2	90.7	94.2	98.0	99.8	97.4
2500	79.2	78.7	78.1	78.8	78.9	79.2	78.7	80.0	80.5	82.4	85.2	87.7	91.2	94.9	96.6	94.1
3150	75.7	75.3	74.9	75.6	75.7	76.0	75.4	76.7	77.3	79.1	81.9	84.4	87.9	91.5	93.1	90.4
4000	71.2	71.2	71.3	72.1	72.1	72.4	71.8	73.1	73.7	75.5	78.3	80.7	84.2	87.6	89.1	86.3
5000	66.2	66.6	67.3	68.1	68.1	68.4	67.7	69.0	69.7	71.5	74.2	76.6	80.0	83.4	84.7	81.8
6300	61.0	61.7	62.9	63.7	63.8	64.1	63.4	64.6	65.4	67.1	69.8	72.3	75.6	78.9	80.2	77.2
8000	56.3	57.3	58.9	59.7	59.7	60.0	59.3	60.6	61.3	63.1	65.8	68.4	71.9	75.3	76.7	73.8
10000	51.4	52.6	54.5	55.4	55.3	55.6	55.0	56.1	56.9	58.7	61.6	64.3	68.0	71.5	72.9	70.2
12500	46.9	47.9	49.7	50.6	50.6	50.8	50.2	51.4	52.1	53.9	57.0	59.8	63.6	67.3	68.8	66.3
16000	42.0	42.9	44.5	45.4	45.3	45.5	45.0	46.2	46.9	48.8	51.9	54.8	58.8	62.7	64.3	62.0
20000	36.7	37.4	38.8	39.6	39.5	39.7	39.3	40.5	41.2	43.1	46.3	49.3	53.5	57.6	59.4	57.4
25000	30.9	31.5	32.5	33.3	33.2	33.3	33.1	34.3	35.0	37.0	40.2	43.3	47.7	52.1	54.2	52.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

[illegible]

	P=PNLT	A=AL	T=ALT
0	.	.	.
10	.	.	.
20	.	.	.
30	.	.	.
40	.	.	.
50	.	.	.
60	.	.	.
70	.	.	.
80	.	.	.
90	.	.	.
100	.	.	.
110	.	.	.
120	.	.	.
130	.	.	.
140	.	.	.
150	.	.	.
160	.	.	.
>170	.	.	.
>180	.	.	.

→ SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:										OPERATION:									
F-14A AIRCRAFT										AFTERBURNER, ZONE 3									
ENG. TF30-P-412										SINGLE ENGINE									
GROUND RUNUP										METEOROLOGY:									
										TEMP = 59 F									
										BAR PRESS = 29.92 IN HG									
										REL HUMID = 70 %									
										DELTA N = 0.0 DB									
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-006																			
AIRCRAFT CODE 136										OPERATION CODE 01002									
PROFILE VERSION A										03 NOV 75									
PAGE C4																			
BAND CENTER																			
FREQ (HZ)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	89	87	89	91	90	91	92	94	93	93	97	101	105	112	113	112	104	94	84
63	89	91	92	92	93	94	95	95	95	96	98	103	110	116	117	113	106	96	86
80	91	93	95	93	94	95	97	97	97	99	102	106	114	119	118	115	107	97	87
100	95	96	97	97	98	98	99	99	101	103	104	110	118	125	122	119	109	99	89
125	96	99	98	98	98	98	101	100	101	104	107	112	120	126	124	120	109	99	89
160	98	100	100	100	99	101	101	103	105	106	109	113	120	127	125	123	109	99	89
200	99	101	101	100	99	101	102	103	105	106	110	115	119	124	125	122	108	98	88
250	96	99	99	99	100	100	102	102	105	106	110	115	119	122	123	121	106	96	86
315	96	100	99	100	101	101	103	104	105	108	111	116	120	124	122	118	104	94	84
400	95	99	99	100	101	101	103	104	106	108	112	116	120	123	121	115	99	89	79
500	95	98	100	101	101	102	103	103	106	108	111	115	119	121	119	113	96	86	76
630	95	98	101	102	102	102	103	104	106	108	112	115	117	120	117	110	93	83	73
800	94	97	100	101	102	102	103	104	105	108	112	113	115	118	114	106	90	80	70
1000	93	95	99	100	101	102	103	104	105	107	111	111	113	116	112	104	88	78	68
1250	92	94	99	99	100	101	102	104	105	106	109	110	111	114	111	104	87	77	67
1600	92	93	98	99	100	102	102	103	104	104	110	112	112	114	111	105	87	77	67
2000	101	96	97	97	99	100	101	102	103	104	109	111	111	113	110	104	87	77	67
2500	92	91	95	96	98	100	100	101	104	106	109	110	111	112	108	102	85	75	65
3150	91	90	95	95	98	100	100	100	104	106	108	110	110	111	107	101	85	75	65
4000	91	89	93	94	96	98	100	99	103	104	107	109	108	111	107	100	84	74	64
5000	89	87	92	92	95	97	99	99	101	103	106	108	108	110	107	100	82	72	62
6300	86	84	89	89	92	94	96	95	98	100	104	106	107	109	104	97	78	68	58
8000	82	80	85	86	89	92	93	93	96	99	103	104	106	107	104	95	76	66	56
10000	77	76	81	83	85	88	90	90	93	96	102	103	105	107	104	94	74	64	54
OVERALL	108	110	111	112	113	113	115	115	117	119	123	126	130	134	133	130	117	107	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
F-14A AIRCRAFT																
ENG. TF30-P-412																
GROUND RUNUP																
OPERATION:																
AFTERBURNER, ZONE 3																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = 0.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-006																
RUN 04																
AIRCRAFT CODE 136																
OPERATION CODE 01002																
PROFILE VERSION A																
03 NOV 75																
PAGE E4																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	125.3	123.0	123.0	124.2	125.9	127.3	128.2	128.6	131.2	133.2	136.3	138.6	140.3	143.4	141.3	136.8
250	123.1	120.6	121.6	122.0	123.6	125.1	126.0	126.3	129.0	130.9	134.0	136.4	138.1	141.3	139.2	134.7
315	120.9	118.4	119.3	119.7	121.3	122.8	123.7	124.0	126.7	128.6	131.7	134.1	135.9	139.1	137.0	132.6
400	118.6	116.1	117.0	117.4	119.0	120.4	121.3	121.7	124.3	126.2	129.3	131.7	133.5	136.9	134.8	130.3
500	116.2	113.8	114.6	115.0	116.5	117.9	118.8	119.2	121.8	123.7	126.8	129.3	131.2	134.6	132.4	128.0
630	113.7	111.3	112.1	112.4	113.9	115.3	116.2	116.6	119.2	121.1	124.2	126.7	128.8	132.2	129.9	125.5
800	111.1	108.7	109.5	109.8	111.2	112.6	113.4	113.9	116.5	118.4	121.5	124.0	126.3	129.7	127.5	122.9
1000	108.4	106.0	106.7	107.0	108.3	109.6	110.5	111.1	113.5	115.4	118.7	121.2	123.6	127.1	124.9	120.1
1250	105.4	103.0	103.8	104.1	105.3	106.6	107.5	108.1	110.4	112.3	115.6	118.2	120.9	124.2	121.9	117.2
1500	102.3	99.9	100.6	101.0	102.0	103.3	104.3	105.0	107.1	109.0	112.3	115.1	118.0	121.3	119.0	114.0
2000	98.8	96.5	97.2	97.7	98.6	99.9	100.9	101.6	103.5	105.4	108.8	112.0	114.9	118.2	116.0	110.9
2500	95.0	92.7	93.5	94.3	95.1	96.2	97.2	97.9	99.6	101.5	105.2	108.5	111.1	114.4	112.2	107.1
3150	90.8	88.6	89.8	90.6	91.3	92.2	93.1	93.9	95.7	97.6	101.4	104.5	107.1	110.2	107.9	102.7
4000	85.5	83.0	85.5	86.3	87.0	87.7	88.6	89.4	91.3	93.3	97.1	100.1	102.7	105.7	103.3	97.9
5000	79.8	77.0	80.8	81.6	82.3	82.9	83.9	84.7	86.6	88.6	92.4	95.4	97.9	101.0	98.6	93.0
6300	73.5	73.7	75.8	76.7	77.3	77.9	79.0	79.8	81.5	83.7	87.4	90.4	93.0	96.1	93.7	88.1
8000	67.3	69.3	71.6	72.5	73.1	73.5	74.5	75.4	77.3	79.3	83.2	86.4	89.1	92.3	90.0	84.4
10000	62.1	64.6	67.1	68.0	68.5	68.9	69.9	70.9	72.7	74.8	78.7	82.2	85.1	88.3	86.0	80.5
12500	57.2	59.7	62.1	63.0	63.5	63.8	65.0	65.9	67.9	70.0	73.9	77.7	80.7	84.1	81.8	76.4
15000	51.8	54.5	56.8	57.5	58.0	58.5	59.7	60.5	62.7	65.0	68.5	72.8	76.0	79.5	77.3	71.9
20000	45.6	48.7	50.9	51.6	52.1	52.6	54.0	54.7	57.0	59.3	62.9	67.4	70.8	74.4	72.3	67.0
25000	38.3	41.6	43.9	44.7	45.2	45.9	47.4	48.1	50.6	53.0	56.6	61.4	65.1	68.9	66.9	61.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(F-14A AIRCRAFT										) OMEGA 8.2									
(ENG. TF30-P-412										) TEST 74-004-006									
(GROUND RUNUP										) RUN 04									
(										) AIRCRAFT CODE 136									
(										) OPERATION CODE 01002									
(										) PROFILE VERSION A									
(										) 03 NOV 75									
(										) PAGE F4									
(										) METEOROLOGY:									
(										) TEMP = 59 F									
(										) BAR PRESS = 29.92 IN HG									
(										) REL HUMID = 70 %									
(										) DELTA N = 0.0 DB									
DISTANCE										ANGLE (DEGREES)									
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	107.9	107.9	111.0	111.5	112.7	113.9	114.8	115.5	117.5	119.3	122.9	125.2	126.9	129.9	127.4	122.5	107.6	97.6	87.6
250	105.8	105.8	108.9	109.4	110.6	111.7	112.6	113.3	115.4	117.1	120.7	123.1	124.8	127.8	125.3	120.4	105.6	95.6	85.6
315	103.6	103.7	106.7	107.3	108.4	109.5	110.4	111.1	113.1	114.9	118.5	120.9	122.7	125.6	123.2	118.4	103.5	93.5	83.5
400	101.4	101.5	104.5	105.1	106.2	107.3	108.2	108.9	110.9	112.7	116.3	118.7	120.5	123.5	121.1	116.2	101.4	91.4	81.4
500	99.1	99.3	102.3	102.8	103.9	105.0	105.9	106.6	108.6	110.4	114.0	116.4	118.3	121.3	118.9	114.0	99.2	89.2	79.2
630	96.7	97.0	100.0	100.6	101.6	102.6	103.5	104.3	106.2	108.0	111.6	114.1	116.0	119.0	116.6	111.7	96.8	86.8	76.8
800	94.3	94.7	97.6	98.2	99.2	100.2	101.1	101.9	103.8	105.6	109.2	111.8	113.7	116.7	114.2	109.3	94.4	84.4	74.4
1000	91.7	92.3	95.2	95.8	96.8	97.7	98.6	99.4	101.3	103.1	106.8	109.3	111.3	114.3	111.8	106.8	91.9	81.9	71.9
1250	89.1	89.7	92.7	93.3	94.2	95.1	96.0	96.9	98.7	100.5	104.2	106.8	108.8	111.8	109.2	104.1	89.1	79.1	69.1
1600	86.3	87.1	90.0	90.7	91.6	92.4	93.4	94.2	96.0	97.8	101.5	104.2	106.2	109.1	106.6	101.3	86.1	76.1	66.1
2000	83.3	84.4	87.3	88.0	88.9	89.6	90.6	91.5	93.2	95.1	98.8	101.5	103.5	106.4	103.8	98.3	83.0	73.0	63.0
2500	80.2	81.4	84.4	85.1	85.9	86.6	87.6	88.5	90.2	92.1	95.8	98.5	100.5	103.4	100.6	95.0	79.5	69.5	59.5
3150	76.7	78.1	81.2	81.9	82.7	83.4	84.3	85.2	86.9	88.9	92.6	95.2	97.2	100.0	97.2	91.3	75.6	65.6	55.6
4000	72.9	74.5	77.6	78.4	79.2	79.8	80.8	81.7	83.3	85.3	89.0	91.5	93.5	96.3	93.3	87.2	71.3	61.3	51.3
5000	68.6	70.4	73.6	74.4	75.2	75.7	76.7	77.6	79.3	81.3	85.0	87.3	89.3	92.1	89.0	82.7	66.7	56.7	46.7
6300	64.0	66.0	69.3	70.1	70.9	71.4	72.4	73.3	74.9	76.9	80.6	82.9	84.9	87.7	84.6	78.2	62.1	52.1	42.1
8000	59.7	62.0	65.2	66.0	66.8	67.2	68.2	69.1	70.8	72.9	76.6	79.0	81.2	84.0	80.9	74.6	58.7	48.7	38.7
10000	55.2	57.8	60.8	61.6	62.3	62.7	63.7	64.6	66.3	68.5	72.2	74.8	77.1	79.9	77.0	70.9	55.1	45.1	35.1
12500	50.5	53.2	56.0	56.9	57.5	57.8	58.9	59.7	61.5	63.7	67.4	70.3	72.7	75.5	72.7	66.8	51.3	41.3	31.3
16000	45.4	48.1	50.7	51.6	52.2	52.4	53.5	54.4	56.2	58.5	62.1	65.3	67.8	70.7	68.1	62.5	47.3	37.3	27.3
20000	39.8	42.6	44.9	45.8	46.3	46.5	47.7	48.5	50.4	52.7	56.3	59.9	62.5	65.5	63.2	58.0	43.2	33.2	23.2
25000	33.8	36.6	38.5	39.4	39.9	40.1	41.3	42.1	44.1	46.4	50.0	53.8	56.7	59.9	57.9	53.1	38.9	28.9	18.9
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(F-14A AIRCRAFT																			
(ENG. TF30-P-412																			
(GROUND RUNUP																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-006																			
) RUN 04																			
) AIRCRAFT CODE 136																			
) OPERATION CODE 01002																			
) PROFILE VERSION A																			
) 03 NOV 75																			
) PAGE 64																			
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = 0.0 DB																			
) ANGLE (DEGREES)																			
) DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	110.7	109.3	111.0	111.5	112.7	113.9	114.8	115.5	117.5	119.3	122.9	125.2	126.9	129.9	127.4	122.5	107.6	97.6	87.6
250	108.6	107.2	108.9	109.4	110.6	111.7	112.6	113.3	115.4	117.1	120.7	123.1	124.8	127.8	125.3	120.4	105.6	95.6	85.6
315	106.4	105.0	106.7	107.3	108.4	109.5	110.4	111.1	113.1	114.9	118.5	120.9	122.7	125.6	123.2	118.4	103.5	93.5	83.5
400	104.2	102.9	104.5	105.1	106.2	107.3	108.2	108.9	110.9	112.7	116.3	118.7	120.5	123.5	121.1	116.2	101.4	91.4	81.4
500	101.9	100.7	102.3	102.8	103.9	105.0	105.9	106.6	108.6	110.4	114.0	116.4	118.3	121.3	118.9	114.0	99.2	89.2	79.2
630	99.5	98.4	100.0	100.6	101.6	102.6	103.5	104.3	106.2	108.0	111.6	114.1	116.0	119.0	116.6	111.7	96.8	86.8	76.8
800	97.1	96.0	97.6	98.2	99.2	100.2	101.1	101.9	103.8	105.6	109.2	111.8	113.7	116.7	114.2	109.3	94.4	84.4	74.4
1000	94.5	93.6	95.2	95.8	96.8	97.7	98.6	99.4	101.3	103.1	106.8	109.3	111.3	114.3	111.8	106.8	91.9	81.9	71.9
1250	91.9	91.1	92.7	93.3	94.2	95.1	96.0	96.9	98.7	100.5	104.2	106.8	108.8	111.8	109.2	104.1	89.1	79.1	69.1
1600	89.1	88.5	90.0	90.7	91.6	92.4	93.4	94.2	96.0	97.8	101.5	104.2	106.2	109.1	106.6	101.3	86.1	76.1	66.1
2000	86.2	85.8	87.3	88.0	88.9	89.6	90.6	91.5	93.2	95.1	98.8	101.5	103.5	106.4	103.8	98.3	83.0	73.0	63.0
2500	83.0	82.8	84.4	85.1	85.9	86.6	87.6	88.5	90.2	92.1	95.8	98.5	100.5	103.4	100.6	95.0	79.5	69.5	59.5
3150	79.5	79.5	81.2	81.9	82.7	83.4	84.3	85.2	86.9	88.9	92.6	95.2	97.2	100.0	97.2	91.3	75.6	65.6	55.6
4000	75.1	75.6	77.6	78.4	79.2	79.8	80.8	81.7	83.3	85.3	89.0	91.5	93.5	96.3	93.3	87.2	71.3	61.3	51.3
5000	70.3	71.2	73.6	74.4	75.2	75.7	76.7	77.6	79.3	81.3	85.0	87.3	89.3	92.1	89.0	82.7	66.7	56.7	46.7
6300	65.1	66.5	69.3	70.1	70.9	71.4	72.4	73.3	74.9	76.9	80.6	82.9	84.9	87.7	84.6	78.2	62.1	52.1	42.1
8000	60.3	62.3	65.2	66.0	66.8	67.2	68.2	69.1	70.8	72.9	76.6	79.0	81.2	84.0	80.9	74.6	58.7	48.7	38.7
10000	55.2	57.8	60.8	61.6	62.3	62.7	63.7	64.6	66.3	68.5	72.2	74.8	77.1	79.9	77.0	70.9	55.1	45.1	35.1
12500	50.5	53.2	56.0	56.9	57.5	57.8	58.9	59.7	61.5	63.7	67.4	70.3	72.7	75.5	72.7	66.8	51.3	41.3	31.3
16000	45.4	48.1	50.7	51.6	52.2	52.4	53.5	54.4	56.2	58.5	62.1	65.3	67.8	70.7	68.1	62.5	47.3	37.3	27.3
20000	39.8	42.6	44.9	45.8	46.3	46.5	47.7	48.5	50.4	52.7	56.3	59.9	62.5	65.5	63.2	58.0	43.2	33.2	23.2
25000	33.8	36.6	38.5	39.4	39.9	40.1	41.3	42.1	44.1	46.4	50.0	53.8	56.7	59.9	57.9	53.1	38.9	28.9	18.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

	P=PNLT	A=AL	T=ALT
0	.	.	.
10	.	.	.
20	.	.	.
30	.	.	.
40	.	.	.
50	.	.	.
60	.	.	.
70	.	.	.
80	.	.	.
90	.	.	.
100	.	.	.
110	.	.	.
120	.	.	.
130	.	.	.
140	.	.	.
150	.	.	.
160	.	.	.
>170	.	.	.
>180	.	.	.

► SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

Country	Year	Value
USAF	1990	1.00
USAF	1991	1.00
USAF	1992	1.00
USAF	1993	1.00
USAF	1994	1.00
USAF	1995	1.00
USAF	1996	1.00
USAF	1997	1.00
USAF	1998	1.00
USAF	1999	1.00
USAF	2000	1.00
USAF	2001	1.00
USAF	2002	1.00
USAF	2003	1.00
USAF	2004	1.00
USAF	2005	1.00
USAF	2006	1.00
USAF	2007	1.00
USAF	2008	1.00
USAF	2009	1.00
USAF	2010	1.00
USAF	2011	1.00
USAF	2012	1.00
USAF	2013	1.00
USAF	2014	1.00
USAF	2015	1.00
USAF	2016	1.00
USAF	2017	1.00
USAF	2018	1.00
USAF	2019	1.00
USAF	2020	1.00
USAF	2021	1.00
USAF	2022	1.00
USAF	2023	1.00
USAF	2024	1.00
USAF	2025	1.00
USAF	2026	1.00
USAF	2027	1.00
USAF	2028	1.00
USAF	2029	1.00
USAF	2030	1.00
USAF	2031	1.00
USAF	2032	1.00
USAF	2033	1.00
USAF	2034	1.00
USAF	2035	1.00
USAF	2036	1.00
USAF	2037	1.00
USAF	2038	1.00
USAF	2039	1.00
USAF	2040	1.00
USAF	2041	1.00
USAF	2042	1.00
USAF	2043	1.00
USAF	2044	1.00
USAF	2045	1.00
USAF	2046	1.00
USAF	2047	1.00
USAF	2048	1.00
USAF	2049	1.00
USAF	2050	1.00
USAF	2051	1.00
USAF	2052	1.00
USAF	2053	1.00
USAF	2054	1.00
USAF	2055	1.00
USAF	2056	1.00
USAF	2057	1.00
USAF	2058	1.00
USAF	2059	1.00
USAF	2060	1.00
USAF	2061	1.00
USAF	2062	1.00
USAF	2063	1.00
USAF	2064	1.00
USAF	2065	1.00
USAF	2066	1.00
USAF	2067	1.00
USAF	2068	1.00
USAF	2069	1.00
USAF	2070	1.00
USAF	2071	1.00
USAF	2072	1.00
USAF	2073	1.00
USAF	2074	1.00
USAF	2075	1.00
USAF	2076	1.00
USAF	2077	1.00
USAF	2078	1.00
USAF	2079	1.00
USAF	2080	1.00
USAF	2081	1.00
USAF	2082	1.00
USAF	2083	1.00
USAF	2084	1.00
USAF	2085	1.00
USAF	2086	1.00
USAF	2087	1.00
USAF	2088	1.00
USAF	2089	1.00
USAF	2090	1.00
USAF	2091	1.00
USAF	2092	1.00
USAF	2093	1.00
USAF	2094	1.00
USAF	2095	1.00
USAF	2096	1.00
USAF	2097	1.00
USAF	2098	1.00
USAF	2099	1.00
USAF	2100	1.00

[illegible][illegible]

Country	Year	Value
USAF	1990	1.0
USAF	1991	1.0
USAF	1992	1.0
USAF	1993	1.0
USAF	1994	1.0
USAF	1995	1.0
USAF	1996	1.0
USAF	1997	1.0
USAF	1998	1.0
USAF	1999	1.0
USAF	2000	1.0
USAF	2001	1.0
USAF	2002	1.0
USAF	2003	1.0
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USAF	2005	1.0
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USAF	2007	1.0
USAF	2008	1.0
USAF	2009	1.0
USAF	2010	1.0
USAF	2011	1.0
USAF	2012	1.0
USAF	2013	1.0
USAF	2014	1.0
USAF	2015	1.0
USAF	2016	1.0
USAF	2017	1.0
USAF	2018	1.0
USAF	2019	1.0
USAF	2020	1.0
USAF	2021	1.0
USAF	2022	1.0
USAF	2023	1.0
USAF	2024	1.0
USAF	2025	1.0
USAF	2026	1.0
USAF	2027	1.0
USAF	2028	1.0
USAF	2029	1.0
USAF	2030	1.0
USAF	2031	1.0
USAF	2032	1.0
USAF	2033	1.0
USAF	2034	1.0
USAF	2035	1.0
USAF	2036	1.0
USAF	2037	1.0
USAF	2038	1.0
USAF	2039	1.0
USAF	2040	1.0
USAF	2041	1.0
USAF	2042	1.0
USAF	2043	1.0
USAF	2044	1.0
USAF	2045	1.0
USAF	2046	1.0
USAF	2047	1.0
USAF	2048	1.0
USAF	2049	1.0
USAF	2050	1.0
USAF	2051	1.0
USAF	2052	1.0
USAF	2053	1.0
USAF	2054	1.0
USAF	2055	1.0
USAF	2056	1.0
USAF	2057	1.0
USAF	2058	1.0
USAF	2059	1.0
USAF	2060	1.0
USAF	2061	1.0
USAF	2062	1.0
USAF	2063	1.0
USAF	2064	1.0
USAF	2065	1.0
USAF	2066	1.0
USAF	2067	1.0
USAF	2068	1.0
USAF	2069	1.0
USAF	2070	1.0
USAF	2071	1.0
USAF	2072	1.0
USAF	2073	1.0
USAF	2074	1.0
USAF	2075	1.0
USAF	2076	1.0
USAF	2077	1.0
USAF	2078	1.0
USAF	2079	1.0
USAF	2080	1.0
USAF	2081	1.0
USAF	2082	1.0
USAF	2083	1.0
USAF	2084	1.0
USAF	2085	1.0
USAF	2086	1.0
USAF	2087	1.0
USAF	2088	1.0
USAF	2089	1.0
USAF	2090	1.0
USAF	2091	1.0
USAF	2092	1.0
USAF	2093	1.0
USAF	2094	1.0
USAF	2095	1.0
USAF	2096	1.0
USAF	2097	1.0
USAF	2098	1.0
USAF	2099	1.0
USAF	2100	1.0

NOISE PRODUCED ON THE GROUND BY

[illegible][illegible]

	FY	FLYOVER MEASUREMENTS	
	AIR	AIRCRAFT CODE#	137
	USAF		
	USAF		
	USAF		
	USAF		

[illegible][illegible][illegible]

FOR EACH POWER SETTING. THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOTSE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT

USAF USAF USAF USAF USAF USAF USAF USAF USAF USAF

NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA

SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA

SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

[illegible]

WRIGHT-PATTERSON AIR FORCE BASE, OHIO
USAF
USAF
USAF
USAF
USAF

USAF
USAF
USAF
USAF
USAF

[illegible][illegible]

	30	40	50	60	70	80	90	100	MEAN	SD
F	(	(	(	(	(	(	(	(	64.5	5.0
R	(	(	(	(	(	(	(	(	70.8	5.5
E	(	(	(	(	(	(	(	(	88.7	9.1
Q	(	(	(	(	(	(	(	(	81.3	8.5
U	(	(	(	(	(	(	(	(	79.7	3.8
E	(	(	(	(	(	(	(	(	95.6	3.8
N	(	(	(	(	(	(	(	(	85.0	7.4
C	(	(	(	(	(	(	(	(	82.6	4.3
Y	(	(	(	(	(	(	(	(	80.4	2.5
I	(	(	(	(	(	(	(	(	78.3	2.8
1	(	(	(	(	(	(	(	(	78.1	2.6
2	(	(	(	(	(	(	(	(	77.2	2.9
5	(	(	(	(	(	(	(	(	74.8	3.2
0	(	(	(	(	(	(	(	(	74.3	2.6
0	(	(	(	(	(	(	(	(	74.2	2.6
0	(	(	(	(	(	(	(	(	74.3	2.0
0	(	(	(	(	(	(	(	(	74.1	1.7
0	(	(	(	(	(	(	(	(	74.1	2.4
0	(	(	(	(	(	(	(	(	75.7	2.5
0	(	(	(	(	(	(	(	(	70.2	4.0
0	(	(	(	(	(	(	(	(	66.0	3.0
0	(	(	(	(	(	(	(	(	61.4	4.8
0	(	(	(	(	(	(	(	(	55.4	4.8
0	(	(	(	(	(	(	(	(	49.0	6.0

AIRSPEED = 140 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 TAKEOFF POWER 3875 ESHP
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-137-103-260177
 PNL T = 105.0 PND8
 PNL = 102.8 PND9
 ALT = 89.9 DBA
 AL = 87.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6			
AIRCRAFT:																									A/C CODE: 137			
P-3																									OPS CODE: 103			
																									PROFILE VER: A			
																									26 JAN 77			
																									PAGE H1			
AIRSPEED = 140 KNOTS																									DELTA N = 0.0 DB			
FREQUENCY BAND NUMBER																												
SLANT DISTANCE (FEET)																												
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
79	85	103	95	94	110	99	97	95	93	93	92	90	90	90	91	91	92	95	91	88	87	86	88					
77	83	101	93	92	108	97	95	93	91	91	90	88	88	88	88	89	90	92	89	86	84	83	84					
75	81	99	91	90	106	95	93	91	89	89	88	86	85	86	86	86	87	90	86	83	81	80	80					
73	79	97	89	88	104	93	91	89	87	87	86	84	83	84	84	84	85	87	83	80	78	76	76					
71	77	95	87	86	102	91	89	87	85	84	84	81	81	81	82	82	82	85	81	77	75	72	71					
68	75	93	85	84	100	89	87	85	83	82	82	79	79	79	79	79	80	82	77	74	71	67	64					
66	73	91	83	82	98	87	85	83	80	80	79	77	77	77	77	77	77	79	74	70	66	62	57					
64	71	89	81	80	96	85	83	80	78	78	77	75	74	74	74	74	74	76	70	66	61	55	49					
62	69	87	79	78	94	83	81	78	76	76	75	72	72	72	72	71	71	72	66	61	56	48	39					
60	67	85	77	76	91	81	78	76	74	74	73	70	69	69	69	68	67	68	61	56	49	39	27					
58	65	83	75	73	89	79	76	74	72	71	70	67	67	66	66	65	64	63	56	50	41	28	12					
56	63	81	73	71	87	77	74	72	69	69	68	65	64	63	62	61	59	58	49	42	31	15						
54	61	78	71	69	85	74	72	69	67	66	65	62	61	60	58	57	54	52	41	34	20							
52	59	76	69	67	83	72	69	67	64	64	62	59	57	56	54	52	48	45	32	23	6							
50	56	74	67	65	81	70	67	64	62	61	59	55	54	52	49	46	42	37	21	11								
48	54	72	64	63	78	67	64	62	59	58	56	52	49	47	44	40	34	27	8									
46	52	70	62	60	76	65	62	59	56	54	52	47	45	42	37	32	24	15										
44	50	68	60	58	73	62	59	56	52	51	48	43	39	35	30	23	13											
42	48	65	57	55	71	59	56	52	49	46	43	37	33	28	21	12												
39	45	63	55	53	68	56	53	49	44	42	38	31	25	19	10													
37	43	60	52	50	65	53	49	45	40	36	31	23	17	8														
35	40	58	49	47	61	49	45	40	34	30	24	15	6															

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	AL	ALT**	PNL	PNLT**	SEL	SELT**	EPNL**	IDENTIFICATION:	
(FEET)	(DBA)	(DBA)	(PNDB)	(PNDB)	(DB)	(DB)	(EPNDB)		
200	103.9	106.1	119.2	121.4	103.0	105.1	109.3		
250	101.7	103.9	116.9	119.1	101.8	103.9	108.0		
315	99.5	101.7	114.6	116.8	100.6	102.6	106.7		OMEGA 6.6
400	97.2	99.4	112.4	114.6	99.3	101.4	105.5		
500	94.9	97.1	110.1	112.3	98.0	100.1	104.2		A/C CODE: 137
630	92.5	94.7	107.7	109.9	96.6	98.7	102.8		OPS CODE: 103
800	90.1	92.3	105.3	107.5	95.2	97.3	101.4		PROFILE VER: A
1000	87.7	89.9	102.8	105.0	93.8	95.9	99.9		26 JAN 77
1250	85.2	87.4	100.3	102.5	92.3	94.4	98.4		PAGE 11
1600	82.7	85.0	97.6	99.8	90.8	92.9	96.7		
2000	80.2	82.4	95.0	97.2	89.3	91.4	95.1		
2500	77.7	79.9	92.2	94.5	87.8	89.9	93.3		
3150	75.1	77.4	89.5	91.7	86.2	88.3	91.6		
4000	72.6	74.3	86.6	88.4	84.7	86.3	89.3		
5000	70.0	71.3	83.7	85.1	83.1	84.3	87.0		
6300	67.3	68.2	80.8	81.7	81.4	82.3	84.6		
8000	64.6	65.1	77.8	78.2	79.7	80.1	82.2		
10000	61.8	61.8	74.5	74.5	77.9	77.9	79.5		
12500	58.9	58.9	71.0	71.0	76.0	76.0	77.1		
16000	55.8	55.8	67.4	67.4	73.9	73.9	74.4		
20000	52.6	52.6	63.6	63.6	71.7	71.7	71.6		
25000	49.1	49.1	59.4	59.4	69.2	69.2	68.4		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	P-3	TAKEOFF POWER	(	ST	---	E	---
250	(	3875 ESHP		(	.	.	ST	E
315	(	AIR SPEED = 140 KNOTS		(	.	.	ST	E
400	(	TEMP = 59 F REL HUMID = 70 %		(	.	.	ST	E
500	(	DELTA N = 0.0 DB		(	.	.	ST	E
	(	NO. OF RECORDS: 6		(	.	.	ST	E
	(	IDENT: 6.6-137-103-260177-A		(	.	.	ST	E
	(			(	.	.	ST	E
S 630	(	.	.	(	.	.	ST	E
L 800	(	.	.	(	.	.	ST	E
A 1000	(	.	.	(	.	.	ST	E
N 1250	(	.	.	(	.	.	ST	E
T 1600	(	.	.	(	.	.	ST	E
I 2000	(	.	.	(	.	.	ST	E
S 2500	(	.	.	(	.	.	ST	E
T 3150	(	.	.	(	.	.	ST	E
A 4000	(	.	.	(	.	.	ST	E
N 5000	(	.	.	(	.	.	ST	E
F 6300	(	.	.	(	.	.	ST	E
E 8000	(	.	.	(	.	.	ST	E
10000	(	.	.	(	.	.	ST	E
12500	(	.	.	(	.	.	ST	E
16000	(	.	.	(	.	.	ST	E
20000	(	.	.	(	.	.	ST	E
25000	(	.	.	(	.	.	ST	E

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 137	
P-3																									OPS CODE: 103	
3875 ESHP																									PROFILE VER: A	
AIRSPEED = 140 KNOTS																									26 JAN 77	
DELTA N = 0.0 DB																									PAGE L1	
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	74	80	98	90	89	105	94	92	90	88	88	87	85	85	85	86	86	87	90	86	83	82	81	83		
250	72	78	96	88	87	103	92	90	88	86	86	85	83	83	83	83	84	85	87	84	81	79	78	79		
315	70	76	94	86	85	101	90	88	86	84	84	83	81	80	81	81	81	82	85	81	78	76	75	75		
400	68	74	92	84	83	99	88	86	84	82	82	81	79	78	79	79	79	80	82	78	75	73	71	71		
500	66	72	90	82	81	96	86	84	82	80	79	79	76	76	76	77	77	77	80	76	72	70	67	66		
630	63	70	88	80	78	94	83	81	80	78	77	77	74	74	74	74	74	75	77	72	69	66	62	59		
800	61	68	86	78	75	91	80	78	78	75	75	74	72	72	72	72	72	72	74	69	65	61	57	52		
1000	59	66	84	75	72	88	77	75	75	73	73	72	70	69	69	69	69	69	71	65	61	56	50	44		
1250	57	64	81	72	69	85	74	72	72	71	71	70	67	67	67	67	66	66	67	61	56	51	43	34		
1600	55	61	77	68	66	81	71	69	69	69	69	68	65	64	64	64	63	62	63	56	51	44	34	22		
2000	52	57	74	65	62	77	67	65	65	65	67	66	65	62	61	61	60	59	58	51	45	36	23	7		
2500	49	53	69	60	58	73	62	60	61	63	64	63	60	59	58	57	56	54	53	44	37	26	10			
3150	45	49	65	56	53	68	57	55	57	59	60	60	57	56	55	53	52	49	47	36	29	15				
4000	40	44	59	50	47	62	52	49	52	54	56	56	54	52	51	49	47	43	40	27	18	1				
5000	35	39	55	45	42	58	47	44	46	48	52	52	50	49	47	44	41	37	32	16	6					
6300	30	34	50	40	38	53	42	39	40	43	48	48	46	44	42	39	35	29	22	3						
8000	28	32	48	38	35	50	39	37	37	40	44	44	41	40	37	32	27	19	10							
10000	26	30	46	36	33	48	37	34	34	36	41	40	37	34	30	25	18	8								
12500	24	28	43	33	30	45	34	31	30	33	36	35	31	28	23	16	7									
16000	21	25	41	31	28	42	31	28	27	28	32	30	25	20	14	5										
20000	19	23	38	28	25	39	27	24	23	24	26	23	17	12	3											
25000	17	20	36	25	22	36	24	20	18	18	20	16	9	1												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
OPERATION:									
(TAKEOFF POWER)									
(3875 ESHP)									
()									
(AIRSPEED = 140 KNOTS)									
(DELTA N = 0.0 DB)									
METEOROLOGY:									
TEMP = 59 F									
REL HUMID = 70 %									
A/C CODE: 137									
OPS CODE: 103									
PROFILE VER: A									
26 JAN 77									
PAGE M1									
IDENTIFICATION:									
OMEGA 6.6									
SLANT DISTANCE (FEET):									
AL (JBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDR)			
296	98.9	114.2	115.4	98.0	100.0	104.3			
340	96.7	111.9	117.1	96.8	98.8	103.0			
380	94.5	109.6	111.8	95.6	97.6	101.7			
420	92.1	107.3	109.4	94.2	96.3	100.3			
460	89.7	104.8	106.9	92.8	94.9	98.8			
500	87.2	102.1	104.3	91.3	93.3	97.2			
540	84.6	99.3	101.5	89.7	91.7	95.4			
580	81.9	96.5	98.5	88.0	90.0	93.4			
620	79.0	93.1	95.2	86.1	88.1	91.1			
660	76.0	89.5	91.7	84.1	86.1	88.6			
700	72.8	85.7	87.9	81.9	83.9	85.8			
740	69.4	81.3	83.5	79.5	81.5	82.4			
780	65.7	76.3	78.5	76.7	78.8	78.4			
820	61.6	70.9	72.6	73.7	75.3	73.5			
860	57.2	65.7	67.0	70.3	71.5	69.0			
900	52.5	60.3	61.1	66.6	67.4	64.1			
940	48.4	55.9	56.3	63.5	63.9	60.3			
980	44.1	51.1	51.1	60.2	60.2	56.1			
1020	39.5	45.3	45.3	56.6	56.6	51.3			
1060	34.9	39.4	39.4	53.0	53.0	46.5			
1100	30.1	33.2	33.2	49.2	49.2	41.2			
1140	25.4	24.9	24.9	45.5	45.5	33.9			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	P-3	TAKEOFF POWER	(	A	+	(	P	(
250	(	3875 ESHP		(	.	A	+	.	* P
315	(	AIR SPEED = 140 KNOTS		(	.	.	.	.	.
400	(	TEMP = 59 F	REL HUMID = 70 %	(	.	A	+	.	* P
500	(	DELTA N = 0.0 DB		(	.	A	+	.	* P
	(	NO. OF RECORDS: 6		(	.	.	.	.	.
	(	IDENT: 6.6-137-103-260177-A		(	.	A	+	.	* P
S 630	(	.	.	(	.	A	+	.	* P
L 800	(	.	.	(	.	A	+	.	* P
N 1000	(	.	.	(	.	A	+	.	* P
D 1250	(	.	.	(	.	A	+	.	* P
I 1600	(	.	.	(	.	A	+	.	* P
T 2000	(	.	.	(	.	A	+	.	* P
A 2500	(	.	.	(	.	A	+	.	* P
C 3150	(	.	.	(	.	A	+	.	* P
E 4000	(	.	.	(	.	A	+	.	* P
I 5000	(	.	.	(	.	A	+	.	* P
E 6300	(	.	.	(	.	A	+	.	* P
T 8000	(	.	.	(	.	A	+	.	* P
10000	(	.	.	(	.	A	+	.	* P
12500	(	.	.	(	.	A	+	.	* P
16000	(	.	.	(	.	A	+	.	* P
20000	(	.	.	(	.	A	+	.	* P
25000	(	.	.	(	.	A	+	.	* P

NOISE LEVEL IN DB

	20	30	40	50	60	70	80	90	
	(((((((()
50	MEAN
63	SD
80	60.8
100	1.0
125	67.0
160	6.8
200	83.1
250	7.0
315	75.7
400	2.1
500	5.4
630	7.2
800	1.8
1000	79.5
1250	1.0
1600	4.6
2000	81.0
2500	2.3
3150	1.2
4000	75.6
5000	2.3
6300	76.5
8000	2.3
10000	77.3
	1.6
	74.3
	1.6
	73.9
	1.1
	74.2
	2.1
	74.0
	2.1
	74.9
	1.2
	74.0
	1.5
	73.3
	2.8
	69.4
	1.7
	65.4
	3.0
	60.9
	3.6
	52.7
	4.2
	39.1
	3.8
)))))))))

AIRSPEED = 180 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 3
 CRUISE POWER 2000 ESHP
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-137-104-260177
 PNLT = 101.4 PNOB
 PNL = 99.7 PNOB
 ALT = 87.7 DBA
 AL = 86.0 DBA

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										
AIR-TO-GROUND PROPAGATION										
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	IDENTIFICATION:			
P-3							OMEGA 6.6			
							A/C CODE: 137			
							OPS CODE: 104			
							PROFILE VER: A			
							26 JAN 77			
							PAGE 12			
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)			
200	102.4	104.1	117.0	118.7	102.1	103.9	108.0			
250	100.2	101.9	114.8	116.5	100.9	102.7	106.7			
315	98.0	99.7	112.4	114.2	99.7	101.5	105.4			
400	95.7	97.4	110.0	111.8	98.4	100.2	104.0			
500	93.4	95.1	107.6	109.3	97.1	98.9	102.5			
630	91.0	92.7	105.0	106.7	95.7	97.5	100.9			
800	88.5	90.2	102.2	103.9	94.2	96.1	99.1			
1000	86.0	87.7	99.7	101.4	92.7	94.6	97.6			
1250	83.5	85.2	97.1	98.8	91.2	93.0	96.0			
1600	80.8	82.6	94.4	96.1	89.5	91.4	94.3			
2000	78.2	79.9	91.7	93.4	87.9	89.7	92.6			
2500	75.5	77.2	88.8	90.5	86.2	88.0	90.7			
3150	72.7	74.4	85.9	87.6	84.4	86.2	88.9			
4000	69.9	71.3	83.0	84.3	82.6	84.1	86.5			
5000	67.1	68.1	79.9	80.9	80.8	81.9	84.1			
6300	64.2	64.9	76.7	77.4	78.9	79.6	81.5			
8000	61.2	61.6	73.4	73.8	76.9	77.3	78.9			
10000	58.2	58.2	70.0	70.0	74.9	74.9	76.1			
12500	55.1	55.1	66.4	66.4	72.8	72.8	73.5			
16000	51.8	51.8	62.6	62.6	70.5	70.5	70.7			
20000	48.3	48.3	58.6	58.6	68.0	68.0	67.7			
25000	44.7	44.7	54.2	54.2	65.4	65.4	64.3			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

P-3 CRUISE POWER										S-T-E									
200	(((((((((((((((((((
250	(((((((((((((((((((
315	(((((((((((((((((((
400	(((((((((((((((((((
500	(((((((((((((((((((
630	(((((((((((((((((((
800	(((((((((((((((((((
1000	(((((((((((((((((((
1250	(((((((((((((((((((
1600	(((((((((((((((((((
2000	(((((((((((((((((((
2500	(((((((((((((((((((
3150	(((((((((((((((((((
4000	(((((((((((((((((((
5000	(((((((((((((((((((
6300	(((((((((((((((((((
8000	(((((((((((((((((((
10000	(((((((((((((((((((
12500	(((((((((((((((((((
16000	(((((((((((((((((((
20000	(((((((((((((((((((
25000	(((((((((((((((((((

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																									OMEGA 6.6	
AIRCRAFT:																									A/C CODE: 137	
P-3																									OPS CODE: 104	
																									PROFILE VER: A	
																									26 JAN 77	
																									PAGE L2	
SLANT DISTANCE (FEET)																										
FREQUENCY BAND NUMBER																										
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
200	70	76	92	85	85	100	69	90	85	86	87	84	84	85	85	87	87	87	87	85	82	81	78	72		
250	66	74	90	83	83	98	87	88	88	83	84	85	82	82	83	84	84	84	85	83	80	79	75	69		
315	66	72	88	81	81	96	85	86	86	81	82	83	80	80	81	81	82	82	82	80	77	76	72	65		
400	64	70	86	79	79	93	83	84	84	79	80	81	78	78	78	79	80	80	80	78	74	72	68	60		
500	62	68	84	77	77	91	80	82	82	77	78	79	76	76	76	76	78	77	77	75	71	69	64	55		
630	60	66	82	75	74	88	77	79	80	75	76	77	74	74	74	74	75	75	75	72	68	65	59	49		
800	58	64	80	72	72	86	75	77	78	73	74	74	72	71	72	72	73	72	72	68	64	61	54	42		
1000	56	62	78	69	69	83	72	74	76	71	72	72	69	69	69	70	69	68	68	64	60	56	48	34		
1250	54	60	75	66	66	79	69	71	73	68	69	70	67	67	67	66	67	66	65	60	56	50	40	24		
1600	52	57	72	63	62	76	65	67	70	66	67	68	65	64	64	63	64	62	61	55	50	44	32	12		
2000	49	53	68	59	58	72	61	63	66	64	65	65	62	61	61	60	61	59	56	50	44	36	21			
2500	45	49	64	55	54	68	57	59	62	60	62	63	59	58	58	57	57	54	51	44	37	26	9			
3150	41	45	59	50	49	63	52	54	58	56	59	60	57	55	55	53	53	49	45	36	29	15				
4000	37	40	54	44	43	57	46	48	52	51	55	57	53	52	51	49	48	44	38	27	18	2				
5000	31	35	49	40	39	52	41	43	46	46	51	52	50	48	47	44	42	37	30	16	6					
6300	26	30	44	35	34	47	36	38	40	40	46	48	45	44	42	39	36	29	20	3						
8000	24	28	42	33	32	45	34	35	38	37	43	44	41	40	37	33	28	20	8							
10000	22	26	40	30	29	43	31	32	35	34	39	40	37	34	31	25	19	9								
12500	20	24	38	28	27	40	28	29	31	30	35	35	31	28	23	16	9									
16000	18	21	35	25	24	37	25	26	28	26	30	30	25	21	15	5										
20000	15	19	33	23	21	34	22	22	24	21	25	24	18	12	4											
25000	13	17	30	20	18	31	18	18	19	16	19	17	9	1												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 137	
(OPERATION:										OPS CODE: 104	
(CRUISE POWER										= 59 F	
(2000 ESHP										REL HUMID = 70 %	
(PROFILE VER: A	
(26 JAN 77	
(AIRSPEED = 180 KNOTS										DELTA N = 0.0 DB	
										PAGE M2	
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	97.4	99.5	112.0	114.1	97.1	99.3	103.3				
250	95.2	97.3	109.8	111.8	95.9	98.1	102.0				
315	93.0	95.0	107.4	109.5	94.7	96.9	100.7				
400	90.7	92.7	105.0	107.1	93.4	95.6	99.3				
500	88.3	90.4	102.5	104.5	92.0	94.2	97.7				
630	85.8	87.9	99.8	101.8	90.5	92.7	96.0				
800	83.3	85.3	96.9	99.0	89.0	91.2	94.2				
1000	80.6	82.7	93.8	95.9	87.3	89.5	92.1				
1250	77.8	79.9	90.5	92.6	85.5	87.7	89.8				
1600	74.9	76.9	87.0	89.1	83.6	85.8	87.3				
2000	71.8	73.9	83.2	85.3	81.5	83.7	84.5				
2500	68.5	70.6	79.2	81.3	79.2	81.4	81.5				
3150	65.0	67.0	74.7	76.8	76.7	78.9	78.0				
4000	61.0	62.7	69.9	71.6	73.7	75.5	73.8				
5000	56.7	57.9	64.9	66.1	70.4	71.7	69.3				
6300	52.0	52.9	59.5	60.3	66.7	67.6	64.4				
8000	47.8	48.2	54.8	55.3	63.5	63.9	60.4				
10000	43.3	43.3	49.6	49.6	60.0	60.0	55.7				
12500	38.5	38.5	43.3	43.3	56.2	56.2	50.4				
16000	33.4	33.4	36.7	36.7	52.1	52.1	44.7				
20000	28.1	28.1	29.1	29.1	47.8	47.8	38.2				
25000	22.6	22.6	18.5	18.5	43.3	43.3	28.5				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

P-3 CRUISE POWER										A + - - - - - * P									
200	(((((((((((((((((((
250	(((((((((((((((((((
315	(((((((((((((((((((
400	(((((((((((((((((((
500	(((((((((((((((((((
630	(((((((((((((((((((
800	(((((((((((((((((((
1000	(((((((((((((((((((
1250	(((((((((((((((((((
1600	(((((((((((((((((((
2000	(((((((((((((((((((
2500	(((((((((((((((((((
3150	(((((((((((((((((((
4000	(((((((((((((((((((
5000	(((((((((((((((((((
6300	(((((((((((((((((((
8000	(((((((((((((((((((
10000	(((((((((((((((((((
12500	(((((((((((((((((((
16000	(((((((((((((((((((
20000	(((((((((((((((((((
25000	(((((((((((((((((((

	20	30	40	50	60	70	80	90	MEAN	SD
50	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	58.0	2.2
63	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	74.5	3.9
80	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	72.8	3.6
100	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	69.2	3.2
125	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	85.8	2.8
160	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	82.3	5.0
200	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	68.4	2.0
250	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	68.9	1.5
315	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	69.9	2.4
400	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	66.8	.4
500	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	65.7	2.2
630	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	65.8	1.3
800	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	64.2	1.2
1000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	64.2	2.0
1250	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	63.7	2.5
1600	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	61.9	1.5
2000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	61.6	1.1
2500	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	59.0	1.2
3150	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	57.5	1.2
4000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	55.4	.7
5000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	52.1	1.5
6300	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	47.8	1.3
8000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	45.7	1.7
10000	(.)	(.)	(.)	(.)	(.)	(.)	(.)	(.)	38.0	4.0

AIRSPEED = 120 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 3
 P-3 APPROACH POWER 900 ESHP
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-137-105-260177
 PNLT = 92.9 PND8
 PNL = 91.2 PND8
 ALT = 77.8 DBA
 AL = 76.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									
AIR-TO-GROUND PROPAGATION																									
IDENTIFICATION:																									
OMEGA 6.6																									
A/C CODE: 137																									
OPS CODE: 105																									
PROFILE VER: A																									
26 JAN 77																									
PAGE H3																									
METEOROLOGY:																									
TEMP = 59 F																									
REL HUMID = 70 %																									
DELTA N = 0.0 DB																									
AIRSPEED = 120 KNOTS																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	72	89	87	83	100	96	83	83	84	81	80	81	79	79	79	78	78	76	76	76	76	73	72	75	74
250	70	87	85	81	98	94	81	81	82	79	78	78	77	77	77	76	76	74	74	74	73	71	69	72	71
315	68	85	83	79	96	92	79	79	80	77	76	76	75	75	75	74	74	72	71	71	68	67	69	67	
400	66	83	81	77	94	90	77	77	78	75	74	74	73	73	73	71	71	69	69	68	66	64	65	63	
500	64	81	79	75	92	88	75	75	76	73	72	72	71	71	71	69	69	67	66	65	63	60	61	58	
630	62	79	77	73	90	86	72	73	74	71	70	70	69	69	68	67	67	64	64	62	59	57	57	52	
800	60	77	75	71	88	84	70	71	72	69	68	68	66	67	66	64	64	62	61	59	56	52	52	46	
1000	58	75	73	69	86	82	68	69	70	67	66	66	64	64	64	62	62	59	57	55	52	48	46	38	
1250	56	73	71	67	84	80	66	67	68	65	63	64	62	62	61	59	59	56	54	51	48	42	39	29	
1600	54	70	69	65	82	78	64	65	66	62	61	61	60	59	59	56	56	53	50	47	43	36	31	18	
2000	52	68	67	63	80	76	62	63	63	60	59	59	57	57	56	53	53	49	46	42	37	29	21	5	
2500	50	66	65	61	77	74	60	60	61	58	57	56	54	54	53	50	49	45	41	36	30	20	9		
3150	48	64	63	59	75	72	58	58	59	55	54	54	52	51	50	47	45	40	36	29	22	10			
4000	46	62	60	57	73	70	55	56	57	53	51	51	49	48	46	43	40	35	29	20	13				
5000	44	60	58	55	71	67	53	53	54	50	49	48	45	44	42	38	35	29	21	10	1				
6300	42	58	56	52	69	65	51	51	51	48	46	45	42	40	38	33	29	21	12						
8000	40	56	54	50	66	63	48	48	49	45	43	41	38	36	33	27	22	13	1						
10000	37	54	52	48	64	60	46	46	46	41	39	37	34	31	27	20	14	2							
12500	35	51	50	46	62	58	43	43	43	38	35	33	28	25	20	12	4								
16000	33	49	47	43	59	55	40	39	39	34	31	28	23	18	12	2									
20000	31	47	45	41	56	52	37	36	35	30	26	22	16	10	2										
25000	28	44	42	38	53	49	33	32	31	25	20	15	8	0											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

AD-A056 217

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 20/1
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)

UNCLASSIFIED

MAR 78 J D SPEAKMAN, R G POWELL, R A LEE
AMRL-TR-73-110-VOL-6

NL

5 OF 6

AD
A056217



TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	METEOROLOGY:	TEMP	REL HUMID	DELTA N	0.0 DB	SELT**	EPNL**
P-3	(	900 ESH	(					(DB)	(EPNDB)
	((
	(	AIRSPEED = 120 KNOTS	(
	((
SLANT DISTANCE (FEET)	AL (DB)	ALT** (DB)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	91.3	93.0	107.2	108.8	94.9	96.3	100.3		
250	89.2	90.9	105.0	106.7	93.8	95.2	99.1		
315	87.1	88.8	102.8	104.5	92.7	94.0	97.9		
400	84.9	86.6	100.6	102.3	91.5	92.9	96.7		
500	82.8	84.4	98.3	100.0	90.3	91.7	95.4		
630	80.6	82.2	96.0	97.7	89.1	90.5	94.1		
800	78.3	80.0	93.7	95.3	87.9	89.3	92.7		
1000	76.1	77.8	91.2	92.9	86.7	88.0	91.3		
1250	73.8	75.5	88.8	90.5	85.4	86.8	89.9		
1600	71.5	73.2	86.3	88.0	84.1	85.4	88.4		
2000	69.2	70.8	83.7	85.4	82.7	84.1	86.8		
2500	66.8	68.5	81.0	82.8	81.4	82.7	85.0		
3150	64.4	66.0	78.1	79.8	79.9	81.3	83.2		
4000	61.9	63.2	75.2	76.5	78.5	79.6	81.0		
5000	59.4	60.4	72.2	73.2	77.0	77.8	78.8		
6300	56.9	57.5	69.1	69.8	75.4	76.0	76.4		
8000	54.3	54.6	65.9	66.2	73.8	74.1	73.9		
10000	51.6	51.6	62.6	62.6	72.2	72.2	71.3		
12500	48.9	48.9	59.0	59.0	70.5	70.5	68.7		
16000	46.0	46.0	55.4	55.4	68.6	68.6	66.1		
20000	43.1	43.1	51.5	51.5	66.6	66.6	63.2		
25000	39.9	39.9	47.4	47.4	64.4	64.4	60.1		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

P-3 APPROACH POWER										ST
250	((((((((((
315	((((((((((
400	((((((((((
500	((((((((((
630	((((((((((
800	((((((((((
1000	((((((((((
1250	((((((((((
1600	((((((((((
2000	((((((((((
2500	((((((((((
3150	((((((((((
4000	((((((((((
5000	((((((((((
6300	((((((((((
8000	((((((((((
10000	((((((((((
12500	((((((((((
16000	((((((((((
20000	((((((((((
25000	((((((((((
P-3 APPROACH POWER										ST
AIRSPEED = 120 KNOTS										ST
TEMP = 59 F REL HUMID = 70 %										ST
DELTA N = 0.0 DB										ST
NO. OF RECORDS: 3										ST
IDENT: 6.6-137-105-260177-A										ST
S L A N T										ST
O I S T A N C E										ST
F E E T										ST
AIR TO GROUND										ST
E = EPNL										ST
T = SELT										ST
S = SEL										ST
NOISE LEVEL IN DB										ST

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																							OMEGA 6.6	
AIRCRAFT:																							A/C CODE: 137	
(OPERATION:)																							OPS CODE: 105	
(APPROACH POWER)																							REL HUMID = 70 %	
(900 ESHP)																							PROFILE VER: A	
()																							26 JAN 77	
(AIRSPEED = 120 KNOTS)																							PAGE L3	
DELTA N = 0.0 DB																								
FREQUENCY BAND NUMBER																								
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	67	84	82	78	95	91	78	78	79	76	75	76	74	74	74	73	73	71	71	71	68	67	70	69
250	65	82	80	76	93	89	76	76	77	74	73	73	72	72	72	71	71	69	69	68	66	64	67	66
315	63	80	78	74	91	87	74	74	75	72	71	71	70	70	70	69	69	67	66	66	63	62	64	62
400	61	78	76	72	89	85	71	72	73	70	69	69	68	68	68	66	66	64	64	63	61	59	60	58
500	59	76	74	70	87	83	69	70	71	68	67	67	66	66	66	64	64	62	61	60	58	55	56	53
630	57	74	72	68	84	80	66	67	69	66	65	65	64	64	63	62	62	59	59	57	54	52	52	47
800	55	72	70	66	81	77	64	65	67	64	63	63	61	62	61	59	59	57	56	54	51	47	47	41
1000	53	70	68	63	79	75	61	62	65	62	61	61	59	59	59	57	57	54	52	50	47	43	41	33
1250	51	68	65	60	75	71	57	58	62	60	58	59	57	57	56	54	54	51	49	46	43	37	34	24
1600	49	64	61	56	72	68	54	55	59	57	56	56	55	54	54	51	51	48	45	42	38	31	26	13
2000	46	61	58	53	68	64	50	51	55	55	54	54	52	52	51	48	48	44	41	37	32	24	16	
2500	42	57	54	48	64	60	46	47	51	51	51	51	49	49	48	45	44	40	36	31	25	15	4	
3150	38	52	49	43	59	55	41	42	47	47	47	47	46	46	45	42	40	35	31	24	17	5		
4000	34	47	44	38	53	49	35	36	41	43	44	45	44	43	41	38	35	30	24	15	8			
5000	29	43	39	33	49	44	30	31	35	37	40	41	40	39	37	33	30	24	16	5				
6300	24	38	34	28	44	40	25	26	29	32	36	37	36	35	33	28	24	16	7					
8000	22	36	32	26	41	37	23	23	27	29	33	33	32	31	28	22	17	8						
10000	19	34	30	24	39	35	20	21	24	25	29	29	28	26	22	15	9							
12500	17	31	28	22	37	32	17	18	21	22	25	25	22	20	15	7								
16000	15	29	25	19	34	29	14	14	17	18	21	20	17	13	7									
20000	13	27	23	17	31	26	11	11	13	14	16	14	10	5										
25000	10	24	20	14	28	23	8	7	9	9	10	7	2											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	METEOROLOGY:	SEL	SELN**	EPNL**			
			TEMP	(DB)	(DB)	(EPNDB)			
P-3	900 ESHP		REL HUMID = 70 %						
	AIR SPEED = 120 KNOTS	DELTA N = 0.0 DB							
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELN** (DB)	EPNL** (EPNDB)		
200	86.3	88.0	102.1	103.7	89.9	91.2	95.2		
250	84.2	85.9	99.9	101.6	83.8	90.1	94.0		
315	82.1	83.7	97.8	99.4	87.7	89.0	92.8		
400	79.9	81.5	95.5	97.1	85.5	87.8	91.5		
500	77.6	79.3	93.1	94.8	85.2	86.5	90.2		
630	75.2	76.8	90.5	92.1	83.8	85.1	88.5		
800	72.7	74.4	87.7	89.4	82.3	83.6	86.8		
1000	70.1	71.8	84.7	86.3	80.7	82.0	84.7		
1250	67.4	69.0	81.3	82.9	78.9	80.3	82.3		
1600	64.5	66.1	77.6	79.2	77.1	78.4	79.6		
2000	61.5	63.1	73.6	75.2	75.0	76.4	76.6		
2500	58.2	59.8	69.1	70.7	72.8	74.1	73.2		
3150	54.7	56.3	64.1	65.7	70.2	71.6	69.1		
4000	50.8	52.1	59.3	60.6	67.4	68.5	65.0		
5000	46.7	47.6	53.8	54.8	64.2	65.0	60.4		
6300	42.2	42.9	48.0	48.7	60.8	61.3	55.3		
8000	38.3	38.6	42.9	43.3	57.8	58.1	50.9		
10000	34.1	34.1	37.0	37.0	54.7	54.7	45.7		
12500	29.7	29.7	30.5	30.5	51.3	51.3	40.2		
16000	25.2	25.2	21.6	21.6	47.7	47.7	32.4		
20000	20.7	20.7	9.0	9.0	44.2	44.2	20.7		
25000	16.3	16.3			40.9	40.9	9.1		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3

*** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

P-3 APPROACH POWER										A + P									
200	(((((((((((((((((((
250	(((((((((((((((((((
315	(((((((((((((((((((
400	(((((((((((((((((((
500	(((((((((((((((((((
630	(((((((((((((((((((
800	(((((((((((((((((((
1000	(((((((((((((((((((
1250	(((((((((((((((((((
1600	(((((((((((((((((((
2000	(((((((((((((((((((
2500	(((((((((((((((((((
3150	(((((((((((((((((((
4000	(((((((((((((((((((
5000	(((((((((((((((((((
6300	(((((((((((((((((((
8000	(((((((((((((((((((
10000	(((((((((((((((((((
12500	(((((((((((((((((((
16000	(((((((((((((((((((
20000	(((((((((((((((((((
25000	(((((((((((((((((((

NOISE LEVEL IN DB

[illegible]

NOISE PRODUCED ON THE GROUND BY

P-3A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-007
AIRCRAFT CODE: 137
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

IDLE - 170 SHP, 611 C TIT, 660 LBS/HR	389 -
MILITARY - 3800 SHP, 965 C TIT, 2120 LBS/HR	395 -
POWER RUNUP - 1850 SHP, 775 C TIT, 1400 LBS/HR	401 -
	406 -

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

07 NOV 75

AEROSPACE PATTERSON AIR FORCE BASE, CALIFORNIA

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) AIRCRAFT CODE 137 P-3A AIRCRAFT (IDLE, 74% RPM) TEMP = 59 F) OPERATION CODE 02013 ENG. T56-A-14 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG) PROFILE VERSION A GROUND RUNUP () REL HUMID = 70 %) 07 NOV 75 () DELTA N = -3.0 DB) PAGE C1																
BAND CENTER FREQ (HZ)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
50	79	81	81	80	78	78	78	77	75	76	74	73	74	75	78	75
63	68	67	69	68	66	68	68	68	67	70	69	69	70	71	71	68
80	71	69	69	69	66	68	67	65	65	74	69	71	72	74	73	71
100	81	79	80	78	76	76	71	69	68	70	73	72	76	77	79	79
125	77	77	76	75	72	71	69	69	69	71	73	73	77	76	76	78
160	79	78	77	76	75	72	71	71	71	75	72	73	75	78	80	79
200	81	79	79	78	75	74	71	70	70	71	73	76	80	80	81	81
250	83	82	82	81	77	75	71	72	71	73	75	77	82	80	83	81
315	81	81	81	80	77	74	70	71	70	74	75	79	79	80	79	82
400	80	79	79	78	74	73	71	69	68	69	73	74	78	80	77	80
500	78	78	77	77	75	73	71	69	68	67	70	72	76	78	77	77
630	79	78	76	76	75	73	72	71	73	74	80	81	84	85	83	82
800	74	75	75	74	73	72	69	69	68	70	72	75	78	79	80	81
1000	75	74	73	73	73	71	69	68	67	69	71	73	77	78	79	80
1250	74	73	71	71	71	70	68	67	66	69	71	77	79	80	79	79
1600	72	72	72	71	70	70	68	67	66	69	71	76	77	78	78	78
2000	75	74	75	74	72	73	69	69	69	72	73	75	75	77	77	79
2500	74	73	71	71	72	73	69	69	70	70	70	72	74	75	76	78
3150	74	73	72	71	71	72	69	69	70	70	71	71	73	75	77	78
4000	75	74	74	73	73	76	72	72	73	74	75	73	75	77	79	80
5000	83	84	83	81	78	79	74	74	74	73	75	74	76	78	78	79
6300	80	80	80	78	78	78	75	75	75	74	75	75	76	78	78	79
8000	74	74	75	74	73	75	71	72	73	74	71	70	72	74	75	75
10000	77	78	78	78	76	83	77	80	82	80	79	76	74	74	72	71
OVERALL	92	92	92	90	88	89	86	86	86	87	88	89	91	92	92	92

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
P-3A AIRCRAFT																
ENG. T56-A-14																
GROUND RUNUP																
OPERATION:																
IDLE, 74% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-007																
RUN 01																
AIRCRAFT CODE 137																
OPERATION CODE 02013																
PROFILE VERSION A																
07 NOV 75																
PAGE 01																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
ANGLE (DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	106.9	107.1	106.7	105.2	103.3	103.9	99.9	100.0	100.5	100.9	101.9	101.9	103.9	105.4	106.3	107.1
250	104.5	104.7	104.4	102.8	100.9	101.5	97.5	97.5	97.8	98.5	99.5	99.5	101.6	103.1	104.0	104.8
315	102.1	102.3	101.9	100.3	98.5	99.0	95.0	95.0	95.0	96.0	97.1	97.1	99.2	100.7	101.6	102.4
400	99.5	99.7	99.3	97.7	95.9	96.3	92.4	92.4	92.4	93.4	94.5	94.5	96.7	98.2	99.1	99.9
500	96.8	96.9	96.5	95.0	93.1	93.5	89.6	89.5	89.6	89.6	90.6	91.8	91.9	94.2	95.6	96.4
630	93.9	94.0	93.6	92.1	90.2	90.6	86.7	86.5	86.7	87.7	89.0	89.3	91.7	92.9	93.7	94.5
800	90.7	90.9	90.4	89.0	87.1	87.4	83.5	83.3	83.6	84.6	85.9	86.5	89.1	90.2	90.7	91.5
1000	87.4	87.4	87.0	85.6	83.7	83.9	80.1	79.9	80.2	81.3	82.6	83.7	86.3	87.5	87.5	88.3
1250	83.7	83.7	83.3	81.9	80.0	80.1	76.5	76.1	76.4	77.6	79.2	80.7	83.4	84.6	84.6	85.0
1600	79.6	79.7	79.2	77.9	76.0	76.0	72.6	72.5	72.7	74.0	76.0	77.6	80.3	81.5	81.5	81.6
2000	75.7	75.2	74.7	74.1	72.2	72.1	68.8	68.6	68.8	70.2	72.7	74.3	77.1	78.3	77.8	77.9
2500	71.6	71.0	70.6	70.0	68.1	67.9	64.7	64.2	64.4	66.1	69.1	70.9	73.7	74.8	74.3	74.1
3150	67.5	67.0	66.1	65.7	64.1	63.4	60.4	59.7	60.2	61.8	65.2	67.1	70.0	71.1	70.5	70.2
4000	62.8	62.3	61.3	60.9	59.4	58.3	55.6	54.8	55.4	57.1	60.8	62.7	65.7	66.8	66.0	65.7
5000	57.8	57.3	56.1	55.8	54.2	52.8	50.1	49.1	49.8	51.7	55.6	57.8	60.8	62.1	61.2	60.9
6300	52.0	51.6	50.3	50.0	48.3	46.6	43.8	43.0	43.6	45.7	50.1	52.6	55.7	56.9	55.9	55.5
8000	47.2	46.7	45.4	45.2	43.2	41.4	38.6	37.4	38.2	40.3	45.5	47.9	51.2	52.3	51.4	50.8
10000	41.7	41.2	40.0	39.8	37.6	35.3	32.1	30.7	31.2	34.1	39.8	42.6	46.3	47.5	46.2	45.5
12500	35.3	35.0	33.8	33.7	30.5	27.6	24.7	22.7	23.4	26.9	32.8	36.2	40.5	41.7	40.1	39.1
16000	28.3	27.6	27.0	26.8	21.6	18.7	13.3	11.2	12.3	15.4	20.1	24.6	28.3	33.1	34.6	33.1
20000	17.4	17.2	16.5	16.5	10.5	9.7	1.9	1.1	1.1	3.9	14.6	17.6	25.1	26.6	24.0	22.2
25000	6.5	6.9	6.1	6.1	.8	.8					3.1	6.9	11.0	12.7	9.2	6.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PN08)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:)																			
(P-3A AIRCRAFT (IDLE, 74X RPM) TEMP = 59 F)																			
(ENG. T56-A-14 (SINGLE ENGINE) BAR PRESS = 29.92 IN HG)																			
(GROUND RUNUP () REL HUMID = 70 %)																			
() DELTA N = -3.0 DB)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	108.7	109.4	108.9	107.0	104.8	105.7	101.6	102.1	102.4	102.8	104.8	104.5	106.3	107.6	107.9	108.2	103.5	93.3	83.1
250	106.3	107.0	106.5	104.6	102.4	103.3	99.2	99.6	99.7	100.4	102.4	102.1	104.0	105.3	105.5	105.9	101.1	90.9	80.7
315	103.8	104.5	104.0	102.1	99.9	100.8	96.7	97.0	96.9	97.9	100.0	99.7	101.6	102.9	103.1	103.5	98.7	88.5	78.2
400	101.2	101.9	101.4	99.5	97.3	98.1	94.0	94.3	94.3	95.3	97.4	97.2	99.1	100.4	100.6	101.0	96.3	86.0	75.7
500	98.5	99.2	98.6	96.8	94.6	95.3	91.3	91.5	91.5	92.6	94.7	94.6	96.6	97.8	98.0	98.4	93.6	83.4	73.0
630	95.6	96.2	95.7	93.9	91.6	92.3	88.3	88.6	88.6	89.7	91.8	91.9	94.1	95.1	95.2	95.6	90.8	80.5	70.1
800	92.5	93.1	92.6	90.7	88.5	89.1	85.2	85.4	85.4	86.6	88.8	89.2	91.5	92.5	92.3	92.6	87.9	77.5	67.1
1000	89.1	89.7	89.1	87.4	85.1	85.7	81.8	81.9	82.1	83.2	85.5	86.3	88.7	89.7	89.1	89.4	84.9	74.4	63.8
1250	85.4	86.0	85.4	83.7	81.4	81.9	78.2	78.1	78.3	79.6	82.1	83.4	85.8	86.8	85.8	86.1	81.8	71.4	60.8
1600	81.4	81.9	81.3	79.6	77.4	77.8	74.2	74.5	74.6	75.9	78.9	80.3	82.7	83.7	82.7	82.7	78.7	68.2	57.5
2000	77.5	77.5	76.9	75.9	73.7	73.9	70.5	70.6	70.7	72.1	75.5	77.0	79.5	80.5	79.4	79.0	75.4	64.9	54.0
2500	73.4	73.3	72.7	71.8	69.6	69.7	66.3	66.2	66.3	68.0	71.9	73.5	76.1	77.1	75.9	75.2	71.4	60.8	49.2
3150	69.2	69.2	68.2	67.5	65.5	65.2	62.1	61.7	62.1	63.7	68.1	69.8	72.4	73.3	72.0	71.3	67.0	56.2	43.8
4000	64.2	64.1	63.0	62.3	60.5	59.7	56.9	56.4	56.9	58.6	63.1	64.8	67.6	68.6	67.3	66.6	62.0	50.9	37.9
5000	58.8	58.6	57.4	56.9	55.0	53.9	51.1	50.3	51.0	52.9	57.4	59.4	62.3	63.4	62.1	61.5	56.8	44.7	31.2
6300	52.7	52.5	51.1	50.7	48.9	47.3	44.5	43.8	44.4	46.4	51.2	53.6	56.6	57.8	56.5	56.0	51.0	38.3	19.5
8000	47.6	47.2	45.8	45.6	43.5	41.7	38.9	37.8	38.6	40.7	46.0	48.4	51.7	52.8	51.7	51.0	46.1	32.8	11.2
10000	41.7	41.2	40.0	39.8	37.6	35.3	32.1	30.7	31.2	34.1	39.8	42.6	46.3	47.5	46.2	45.5	40.6	25.3	3.0
12500	35.3	35.0	33.8	33.7	30.5	27.6	24.7	22.7	23.4	26.9	32.8	36.2	40.5	41.7	40.1	39.1	34.8	16.8	
16000	28.3	27.6	27.0	26.8	21.6	18.7	13.3	11.2	12.3	15.4	26.1	29.3	33.1	34.6	33.1	31.7	27.9	8.3	
20000	17.4	17.2	16.5	16.5	10.5	9.7	1.9		1.1	3.9	14.6	17.6	25.1	26.5	24.0	22.2	17.9		
25000	6.5	6.9	6.1	6.1		.8					3.1	6.9	11.0	12.7	9.2	6.9	7.8		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(P-3A AIRCRAFT																
(ENG. T56-A-14																
(GROUND RUNUP																
OPERATION:																
(IDLE, 74% RPM																
(SINGLE ENGINE																
(
METEOROLOGY:																
(TEMP = 59 F																
(BAR PRESS = 29.92 IN HG																
(REL HUMID = 70 %																
(DELTA N = -3.0 DB																
IDENTIFICATION:																
(OMEGA 8.2																
(TEST 74-004-007																
RUN 01																
AIRCRAFT CODE 137																
OPERATION CODE 02013																
PROFILE VERSION A																
07 NOV 75																
PAGE F1																
DISTANCE																
(FEET)																
ANGLE (DEGREES)																
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	160	170	180													
200	91.2	91.4	91.0	89.7	88.3	89.7	85.6	85.2	86.8	86.8	87.8	88.8	90.9	92.1	92.2	92.9
250	88.9	89.0	88.6	87.3	85.9	87.0	83.1	83.5	84.1	84.3	85.4	86.6	88.7	89.9	90.0	90.7
315	86.5	86.1	86.5	84.8	83.5	84.3	80.5	80.8	81.3	81.6	83.0	84.3	86.5	87.7	87.7	88.4
400	84.0	84.0	83.5	82.3	80.9	81.5	77.8	78.0	78.4	78.9	80.5	81.9	84.3	85.4	85.4	86.0
500	81.4	81.4	80.9	79.8	78.3	78.6	75.1	75.1	75.4	76.1	77.9	79.6	82.0	83.1	83.1	83.6
630	78.8	78.6	78.1	77.1	75.7	75.7	72.3	72.1	72.4	73.3	75.3	77.2	79.6	80.8	80.6	81.2
800	76.0	75.9	75.3	74.4	72.9	72.8	69.5	69.2	69.4	70.4	72.7	74.7	77.2	78.3	78.2	78.6
1000	73.3	73.0	72.4	71.7	70.1	69.8	66.7	66.2	66.4	67.6	70.1	72.2	74.8	75.9	75.6	76.0
1250	70.4	70.0	69.4	68.8	67.3	66.7	63.6	63.3	63.4	64.7	67.4	69.6	72.3	73.4	73.0	73.3
1500	67.4	67.1	66.4	65.9	64.4	63.7	60.6	60.2	60.3	61.8	64.6	67.0	69.7	70.7	70.3	70.6
2000	64.4	64.1	63.4	63.0	61.4	60.6	57.9	57.2	57.3	58.8	61.8	64.2	67.0	68.1	67.5	67.7
2500	61.2	60.9	60.1	59.8	58.3	57.3	54.7	54.0	54.1	55.7	58.9	61.3	64.1	65.2	64.6	64.7
3150	57.8	57.5	56.6	56.4	55.0	53.9	51.4	50.7	50.7	52.4	55.8	58.2	61.1	62.2	61.4	61.5
4000	54.0	53.7	52.8	52.6	51.3	50.2	47.7	47.0	47.0	48.7	52.2	54.7	57.6	58.6	57.9	58.0
5000	49.8	49.6	48.6	48.5	47.2	46.0	43.6	42.9	42.9	44.6	48.1	50.6	53.5	54.5	53.9	54.0
6300	45.3	45.1	44.1	44.0	42.9	41.6	39.2	38.4	38.4	40.2	43.7	46.2	49.1	50.2	49.5	49.7
8000	41.4	41.3	40.3	40.1	38.9	37.5	35.2	34.4	34.4	36.1	39.8	42.2	45.2	46.2	45.5	45.5
10000	37.3	37.1	36.1	36.0	34.6	33.1	30.8	30.0	30.1	31.7	35.6	37.8	40.9	42.0	41.1	41.0
12500	32.8	32.6	31.6	31.5	29.9	28.4	26.1	25.2	25.3	26.9	31.0	33.0	36.2	37.3	36.3	36.1
16000	27.9	27.7	26.8	26.6	24.8	23.2	21.0	20.0	20.3	21.7	25.9	27.8	31.0	32.1	31.0	30.6
20000	22.6	22.3	21.5	21.3	19.3	17.6	15.4	14.4	14.6	15.9	20.1	21.9	25.2	26.3	25.1	24.6
25000	16.8	16.5	15.8	15.5	13.2	11.5	9.2	8.2	8.4	9.6	13.7	15.4	18.7	19.9	18.7	18.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
P-3A AIRCRAFT																			
ENG. T56-A-14																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-007																			
RUN 01																			
AIRCRAFT CODE 137																			
OPERATION CODE 02013																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE 61																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180	
200	93.0	93.6	93.1	91.5	89.8	91.4	87.2	88.2	88.7	88.8	90.7	91.5	93.3	94.4	93.8	94.0	89.0	79.0	69.0
250	90.6	91.2	90.7	89.1	87.4	88.8	84.7	85.5	86.0	86.2	88.3	89.2	91.2	92.2	91.6	91.8	86.8	76.8	66.8
315	88.2	88.8	88.2	86.6	84.9	86.1	82.1	82.8	83.2	83.5	85.8	86.9	88.9	89.9	89.3	89.5	84.6	74.6	64.6
400	85.7	86.2	85.6	84.1	82.4	83.3	79.5	80.0	80.2	80.8	83.3	84.0	86.7	87.6	87.0	87.1	82.3	72.3	62.3
500	83.2	83.6	83.0	81.6	79.8	80.4	76.8	77.1	77.3	78.0	80.8	82.2	84.4	85.3	84.6	84.7	79.9	69.9	59.9
630	80.5	80.9	80.2	78.9	77.1	77.5	74.0	74.2	74.3	75.2	78.2	79.8	82.0	83.0	82.2	82.3	77.5	67.5	57.5
800	77.6	78.1	77.4	76.2	74.4	74.5	71.2	71.2	71.3	72.4	75.6	77.4	79.6	80.5	79.7	79.7	75.0	65.0	55.0
1000	75.0	75.2	74.5	73.4	71.6	71.6	68.3	68.3	68.3	69.5	73.0	74.9	77.2	78.1	77.2	77.1	72.5	62.5	52.5
1250	72.1	72.3	71.5	70.6	68.7	68.5	65.4	65.3	65.3	66.6	70.3	72.3	74.7	75.6	74.6	74.4	69.9	59.9	49.9
1600	69.2	69.3	68.5	67.7	65.8	65.4	62.5	62.3	62.2	63.7	67.5	69.6	72.1	73.0	71.9	71.7	67.2	57.2	47.2
2000	66.2	66.3	65.5	64.8	62.9	62.3	59.5	59.2	59.1	60.7	64.7	66.9	69.4	70.3	69.1	68.8	64.4	54.4	44.4
2500	63.0	63.1	62.2	61.6	59.8	59.1	56.4	56.0	56.0	57.6	61.8	64.0	66.5	67.4	66.1	65.8	61.3	51.3	41.3
3150	59.6	59.7	58.7	58.2	56.4	55.7	53.1	52.7	52.6	54.3	58.7	60.9	63.5	64.4	63.0	62.6	57.8	47.8	37.8
4000	55.4	55.5	54.5	54.1	52.5	51.6	49.1	48.6	48.5	50.3	54.5	56.8	59.5	60.4	59.2	58.9	53.9	43.9	33.9
5000	50.8	50.9	49.9	49.5	48.1	47.1	44.6	44.1	44.0	45.7	49.8	52.2	54.9	55.9	54.8	54.7	49.4	39.4	29.4
6300	46.0	46.0	45.0	44.7	43.4	42.3	39.9	39.3	39.2	40.9	44.8	47.2	50.1	51.1	50.2	50.1	44.8	34.8	24.8
8000	41.8	41.7	40.7	40.5	39.2	37.9	35.5	34.8	34.8	36.5	40.4	42.7	45.7	46.7	45.8	45.8	40.8	30.8	20.8
10000	37.3	37.1	36.1	36.0	34.6	33.1	30.8	30.0	30.1	31.7	35.6	37.8	40.9	42.0	41.1	41.0	36.5	26.5	16.5
12500	32.8	32.6	31.6	31.5	29.9	28.4	26.1	25.2	25.5	26.9	31.0	33.0	36.2	37.3	36.3	36.1	32.1	22.1	12.1
16000	27.9	27.7	26.8	26.6	24.8	23.2	21.0	20.0	20.3	21.7	25.9	27.8	31.0	32.1	31.0	30.6	27.3	17.3	7.3
20000	22.6	22.3	21.5	21.3	19.3	17.6	15.4	14.4	14.6	15.9	20.1	21.9	25.2	26.3	25.1	24.6	22.1	12.1	2.1
25000	16.8	16.5	15.8	15.5	13.2	11.5	9.2	8.2	8.4	9.6	13.7	15.4	18.7	19.9	18.7	18.0	16.4	6.4	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: P-3A AIRCRAFT
 ENG. T56-A-14
 GROUND RUNUP
 IDENTIFICATION: OMEGA 8.2
 TEST 74-004-007
 RUN 01
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB
 AIRCRAFT CODE 137
 OPERATION CODE 02013
 PROFILE VERSION A
 07 NOV 75
 PAGE J1

	P=PNLT										A=AL	T=ALT												
	10	20	30	40	50	60	70	80	90	100	110		10	20	30	40	50	60	70	80	90	100	110	
0																								
10																								
20																								
30																								
40																								
50																								
60																								
70																								
80																								
90																								
100																								
110																								
120																								
130																								
140																								
150																								
160																								
>170																								
>180																								

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(P-3A AIRCRAFT)																			
(ENG. T56-A-14)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(MILITARY POWER, 100% RPM)																			
(SINGLE ENGINE)																			
(METEOROLOGY:)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
(AIRCRAFT CODE 137)																			
(OPERATION CODE 02030)																			
(PROFILE VERSION A)																			
(07 NOV 75)																			
(PAGE 02)																			
IDENTIFICATION:																			
(OMEGA 8.2)																			
(TEST 74-004-007)																			
RUN 02																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190
83	83	81	81	81	82	84	86	82	83	83	83	84	82	81	76	71	66	61	56
103	100	98	99	97	101	106	108	106	107	107	105	103	98	96	91	86	81	76	71
91	89	88	87	85	88	92	94	90	99	99	98	95	91	89	84	79	74	69	64
90	89	88	88	86	86	85	85	84	84	87	86	89	91	85	80	75	70	65	60
125	96	95	95	91	87	93	95	100	100	101	99	95	93	87	82	77	72	67	62
160	92	92	90	87	85	85	85	91	91	92	91	90	90	83	78	73	68	63	58
200	96	97	94	94	90	89	88	91	90	91	91	91	91	84	79	74	69	64	59
250	98	96	96	93	90	88	89	90	89	90	91	91	89	83	78	73	68	63	58
315	96	96	95	95	92	91	89	87	90	91	90	90	90	82	77	72	67	62	57
400	94	94	94	93	91	90	89	88	89	89	90	90	91	81	76	71	66	61	56
500	94	93	92	92	90	89	88	89	89	88	88	91	91	80	75	70	65	60	55
630	91	91	90	90	88	87	88	87	89	88	89	90	91	81	76	71	66	61	56
800	90	91	90	90	89	88	88	88	89	88	88	88	88	80	75	70	65	60	55
1000	89	90	89	89	88	87	88	88	89	88	87	88	86	79	74	69	64	59	54
1250	89	89	89	88	88	87	87	87	88	86	86	87	87	84	78	73	68	63	58
1600	89	89	89	88	87	87	87	87	87	85	85	85	83	75	70	65	60	55	50
2000	89	89	89	88	87	87	87	87	88	85	85	85	83	73	68	63	58	53	48
2500	89	89	89	88	87	86	86	86	86	84	83	84	83	81	71	66	61	56	51
3150	88	88	88	87	87	85	85	85	85	84	83	83	82	80	70	65	60	55	50
4000	88	88	88	87	86	85	85	85	86	84	83	83	83	80	69	64	59	54	49
5000	85	87	86	85	84	83	82	84	82	81	81	81	80	78	67	62	57	52	47
6300	86	86	86	85	84	82	82	82	82	80	78	78	77	76	65	60	55	50	45
8000	86	87	86	85	83	83	82	80	78	76	75	75	73	62	57	52	47	42	37
10000	81	81	81	80	82	84	83	81	81	78	76	75	70	60	55	50	45	40	35
OVERALL	107	106	105	103	104	107	109	109	109	109	108	106	103	99	94	89	84	79	74
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)															
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE															
NOISE SOURCE/SUBJECT:															
P-3A AIRCRAFT															
ENG. T56-A-14															
GROUND RUNUP															
IDENTIFICATIONS:															
OMEGA 8.2															
TEST 74-004-007															
RUN 02															
AIRCRAFT CODE 137															
OPERATION CODE 02030															
PROFILE VERSION A															
07 NOV 75															
PAGE 02															
METEOROLOGY:															
TEMP = 59 F															
BAR PRESS = 29.92 IN HG															
REL HUMID = 70 %															
DELTA N = -3.0 DB															
ANGLE (DEGREES)															
DISTANCE (FEET)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
200	117.7	117.8	117.3	116.8	115.5	114.6	114.4	113.0	115.6	114.6	114.4	114.0	113.5	111.7	104.0
250	115.4	115.5	115.0	114.6	113.3	112.3	112.1	112.8	113.4	112.4	112.3	111.9	111.2	109.4	101.9
315	113.2	113.2	112.7	112.3	111.0	110.0	109.8	110.6	111.1	110.2	110.1	109.7	108.9	107.3	99.8
400	110.8	110.8	110.4	110.0	108.6	107.6	107.5	108.3	108.7	108.0	107.9	107.5	106.6	105.0	97.6
500	108.4	108.3	107.9	107.5	106.2	105.2	105.1	106.0	106.3	105.7	105.6	105.2	104.2	102.7	95.3
630	105.8	105.7	105.2	105.0	103.6	102.6	102.7	103.6	103.9	103.3	103.2	102.8	101.8	100.3	92.9
800	103.1	103.0	102.5	102.3	100.9	99.9	100.1	101.1	101.4	100.8	100.8	100.4	99.3	97.8	90.4
1000	100.3	100.2	99.6	99.4	98.0	97.0	97.5	98.6	98.8	98.3	98.2	97.8	96.7	95.2	87.6
1250	97.2	97.1	96.5	96.3	94.9	93.9	94.8	95.8	96.0	95.5	95.5	95.1	94.0	92.4	84.7
1600	93.9	93.7	93.1	92.9	91.5	90.5	91.4	92.5	92.7	92.2	92.2	91.8	90.7	89.4	81.0
2000	90.6	90.4	89.8	89.3	87.8	86.8	87.7	88.9	89.0	88.6	88.6	88.1	87.4	86.2	77.5
2500	86.7	86.4	85.8	85.4	83.7	82.9	83.2	84.6	84.6	84.1	84.1	83.9	82.7	81.8	73.8
3150	82.6	82.3	81.4	81.2	79.4	78.6	78.6	79.5	80.1	79.2	79.3	79.9	79.9	78.7	70.0
4000	78.0	77.7	76.8	76.6	74.8	74.0	73.9	74.1	75.6	74.5	74.7	75.3	75.5	74.2	65.5
5000	73.1	72.8	71.9	71.7	69.9	69.0	69.0	69.3	70.7	69.7	69.9	70.5	70.7	69.4	60.5
6300	68.0	67.7	66.7	66.5	64.7	63.8	63.9	64.1	65.5	64.6	64.7	65.4	65.6	64.3	55.3
8000	63.9	63.6	62.5	62.4	60.4	59.6	59.6	59.7	61.2	60.3	60.6	61.3	61.4	60.3	50.9
10000	59.5	59.1	58.0	57.9	55.7	54.9	54.9	54.9	56.5	55.8	56.0	56.9	56.9	56.0	45.6
12500	54.7	54.3	52.9	53.0	50.7	49.8	49.8	49.8	51.4	50.9	50.9	52.0	52.2	51.1	39.5
16000	49.3	48.9	47.5	47.5	44.8	43.7	43.7	43.8	45.7	45.2	45.1	46.6	46.5	45.6	32.3
20000	42.9	42.4	40.7	40.7	37.7	36.9	37.0	36.6	39.0	38.7	38.7	40.1	40.0	38.9	23.0
25000	35.6	34.8	33.2	33.2	30.1	28.3	28.3	28.7	30.5	30.2	30.5	31.9	32.0	30.2	8.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
P-3A AIRCRAFT																
ENG. T56-A-14																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-007																
RUN 02																
AIRCRAFT CODE 137																
OPERATION CODE 02030																
PROFILE VERSION A																
07 NOV 75																
PAGE E2																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	118.6	118.5	118.2	117.8	117.6	117.4	117.2	117.0	116.8	116.6	116.4	116.2	116.0	115.8	115.6	115.4
250	116.3	116.0	115.5	115.0	114.5	114.0	113.5	113.0	112.5	112.0	111.5	111.0	110.5	110.0	109.5	109.0
315	114.1	114.0	113.7	113.3	112.9	112.5	112.1	111.7	111.3	110.9	110.5	110.1	109.7	109.3	108.9	108.5
400	111.7	111.6	111.3	110.9	110.5	110.1	109.7	109.3	108.9	108.5	108.1	107.7	107.3	106.9	106.5	106.1
500	109.3	109.1	108.8	108.5	108.1	107.7	107.3	106.9	106.5	106.1	105.7	105.3	104.9	104.5	104.1	103.7
630	106.7	106.5	106.2	105.9	105.5	105.1	104.7	104.3	103.9	103.5	103.1	102.7	102.3	101.9	101.5	101.1
800	104.0	103.8	103.4	103.0	102.6	102.2	101.8	101.4	101.0	100.6	100.2	99.8	99.4	99.0	98.6	98.2
1000	101.2	100.9	100.6	100.3	99.9	99.5	99.1	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9	95.5
1250	98.1	97.9	97.4	97.2	96.8	96.4	96.0	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4
1600	94.8	94.5	94.1	93.9	93.5	93.1	92.7	92.3	91.9	91.5	91.1	90.7	90.3	89.9	89.5	89.1
2000	91.5	91.1	90.7	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4	87.0	86.6	86.2	85.8	85.4
2500	87.6	87.2	86.8	86.3	85.9	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.6	82.2	81.8	81.4
3150	83.5	83.1	82.4	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1	77.7	77.3
4000	78.7	78.4	77.5	77.4	77.0	76.6	76.2	75.8	75.4	75.0	74.6	74.2	73.8	73.4	73.0	72.6
5000	73.6	73.3	72.4	72.3	71.9	71.5	71.1	70.7	70.3	69.9	69.5	69.1	68.7	68.3	67.9	67.5
6300	68.3	68.0	67.0	66.9	66.5	66.1	65.7	65.3	64.9	64.5	64.1	63.7	63.3	62.9	62.5	62.1
8000	64.1	63.7	62.7	62.6	62.2	61.8	61.4	61.0	60.6	60.2	59.8	59.4	59.0	58.6	58.2	57.8
10000	59.5	59.1	58.0	57.9	57.5	57.1	56.7	56.3	55.9	55.5	55.1	54.7	54.3	53.9	53.5	53.1
12500	54.7	54.3	52.9	53.0	52.5	52.1	51.7	51.3	50.9	50.5	50.1	49.7	49.3	48.9	48.5	48.1
16000	49.3	48.9	47.5	47.5	46.8	46.4	46.0	45.6	45.2	44.8	44.4	44.0	43.6	43.2	42.8	42.4
20000	42.9	42.4	40.7	40.7	39.7	39.3	38.9	38.5	38.1	37.7	37.3	36.9	36.5	36.1	35.7	35.3
25000	35.6	34.8	33.2	33.2	32.1	31.6	31.2	30.8	30.4	30.0	29.6	29.2	28.8	28.4	28.0	27.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
(P-3A AIRCRAFT)																				
(ENG. T56-A-14)																				
(GROUND RUNUP)																				
IDENTIFICATION:																				
) OMEGA 8.2																				
) TEST 74-004-037																				
) RUN 02																				
) AIRCRAFT CODE 137																				
) OPERATION CODE 02030																				
) PROFILE VERSION A																				
) 07 NOV 75																				
) PAGE F2																				
METEOROLOGY:																				
) TEMP = 59 F																				
) BAR PRESS = 29.92 IN HG																				
) REL HUMID = 70 %																				
) DELTA N = -3.0 DB																				
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	103.4	103.5	103.0	102.5	101.3	100.3	99.9	100.0	101.0	99.7	99.5	99.9	99.9	98.6	90.2	85.2	80.2	75.2	70.2	
250	101.2	101.3	100.8	100.4	99.1	98.1	97.7	97.8	98.9	97.5	97.3	97.8	97.8	96.5	88.1	83.1	78.1	73.1	68.1	
315	99.0	99.1	98.6	98.1	96.9	95.8	95.5	95.5	96.7	95.4	95.2	95.7	95.6	94.4	86.0	81.0	76.0	71.0	66.0	
400	96.8	96.9	96.3	95.9	94.6	93.5	93.2	93.3	94.4	93.2	93.0	93.5	93.5	92.2	83.8	78.8	73.8	68.8	63.8	
500	94.5	94.6	94.0	93.6	92.3	91.2	90.9	90.9	92.1	90.9	90.8	91.3	91.2	90.0	81.7	76.7	71.7	66.7	61.7	
630	92.2	92.2	91.6	91.2	89.9	88.8	88.5	88.6	89.8	88.6	88.4	89.0	89.0	87.8	79.4	74.4	69.4	64.4	59.4	
800	89.7	89.8	89.2	88.8	87.4	86.4	86.1	86.1	87.4	86.2	86.1	86.6	86.7	85.5	77.1	72.1	67.1	62.1	57.1	
1000	87.3	87.3	86.7	86.3	84.9	83.9	83.6	83.7	84.9	83.7	83.6	84.2	84.3	83.2	74.8	69.8	64.8	59.8	54.8	
1250	84.6	84.6	84.0	83.6	82.2	81.2	81.0	81.1	82.3	81.2	81.1	81.7	81.8	80.7	72.3	67.3	62.3	57.3	52.3	
1500	81.9	81.9	81.3	80.9	79.5	78.5	78.3	78.3	79.6	78.5	78.4	79.1	79.2	78.2	69.7	64.7	59.7	54.7	49.7	
2000	79.1	79.1	78.5	78.0	76.6	75.7	75.5	75.5	76.7	75.7	75.6	76.3	76.6	75.6	67.1	62.1	57.1	52.1	47.1	
2500	75.9	76.0	75.3	74.9	73.5	72.6	72.4	72.4	73.7	72.6	72.5	73.3	73.6	72.6	64.1	59.1	54.1	49.1	44.1	
3150	72.5	72.6	71.9	71.5	70.1	69.2	69.1	69.1	70.4	69.3	69.2	70.1	70.4	69.4	60.9	55.9	50.9	45.9	40.9	
4000	68.7	68.9	68.2	67.7	66.4	65.5	65.4	65.4	66.7	65.7	65.5	66.4	66.8	65.8	57.4	52.4	47.4	42.4	37.4	
5000	64.5	64.7	64.0	63.6	62.3	61.4	61.3	61.4	62.7	61.6	61.5	62.3	62.8	61.7	53.4	48.4	43.4	38.4	33.4	
6300	60.1	60.3	59.5	59.1	57.8	57.0	56.9	57.0	58.3	57.3	57.1	58.0	58.5	57.3	49.1	44.1	39.1	34.1	29.1	
8000	56.2	56.3	55.5	55.1	53.8	52.9	52.9	52.9	54.2	53.3	53.2	54.1	54.6	53.6	45.2	40.2	35.2	30.2	25.2	
10000	51.9	52.1	51.2	50.8	49.4	48.5	48.5	48.5	49.8	49.0	48.9	49.8	50.4	49.5	40.9	35.9	30.9	25.9	20.9	
12500	47.4	47.5	46.5	46.2	44.6	43.7	43.8	43.7	45.1	44.3	44.3	45.3	45.8	45.0	36.3	31.3	26.3	21.3	16.3	
15000	42.6	42.5	41.5	41.3	39.5	38.6	38.7	38.7	40.0	39.4	39.5	40.4	40.8	40.1	31.3	26.3	21.3	16.3	11.3	
20000	37.4	37.2	36.2	36.0	34.0	33.1	33.4	33.6	34.7	34.3	34.4	35.2	35.4	34.7	25.9	20.9	15.9	10.9	5.9	
25000	31.8	31.4	30.4	30.3	28.2	27.4	28.1	28.7	29.5	29.3	29.5	29.8	29.7	28.9	20.5	15.5	10.5	5.5	.5	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:																				
P-3A AIRCRAFT																				
ENG. T56-A-14																				
GROUND RUNUP																				
(OPERATION:) METEOROLOGY:)																				
(MILITARY POWER, 100% RPM) TEMP = 59 F																				
(SINGLE ENGINE) BAR PRESS = 29.92 IN HG																				
() REL HUMID = 70 %																				
() DELTA N = -3.0 DB																				
IDENTIFICATION:																				
OMEGA 8.2																				
TEST 74-004-007																				
RUN 02																				
AIRCRAFT CODE 137																				
OPERATION CODE 02030																				
PROFILE VERSION A																				
07 NOV 75																				
PAGE 62																				
ANGLE (DEGREES)																				
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180	
200	104.3	104.3	103.9	103.5	102.0	100.3	101.3	101.7	103.0	101.8	101.4	101.6	101.0	98.6	90.7	85.7	80.7	75.7	70.7	
250	102.1	102.1	101.8	101.3	99.8	98.1	99.1	99.5	100.8	99.6	99.2	99.5	98.9	96.5	88.6	83.6	78.6	73.6	68.6	
315	99.9	99.9	99.5	99.1	97.6	95.8	96.8	97.3	98.6	97.5	97.1	97.4	96.7	94.4	86.5	81.5	76.5	71.5	66.5	
400	97.7	97.6	97.3	96.8	95.3	93.5	94.5	95.0	96.4	95.3	94.9	95.2	94.6	92.2	84.4	79.4	74.4	69.4	64.4	
500	95.4	95.3	95.0	94.5	93.0	91.2	92.2	92.7	94.1	93.0	92.6	93.0	92.3	90.0	82.2	77.2	72.2	67.2	62.2	
630	93.1	93.0	92.6	92.1	90.6	88.8	89.9	90.3	91.8	90.7	90.3	90.7	90.1	87.8	80.0	75.0	70.0	65.0	60.0	
800	90.6	90.5	90.1	89.7	88.1	86.4	87.4	87.9	89.3	88.3	88.0	88.3	87.8	85.5	77.7	72.7	67.7	62.7	57.7	
1000	88.2	88.0	87.6	87.2	85.6	83.9	84.9	85.4	86.8	85.8	85.5	85.9	85.4	83.2	75.3	70.3	65.3	60.3	55.3	
1250	85.5	85.4	85.0	84.6	82.9	81.2	82.4	82.8	84.2	83.3	83.0	83.4	82.9	80.7	72.8	67.8	62.8	57.8	52.8	
1600	82.8	82.7	82.2	81.8	80.2	78.5	79.7	80.1	81.5	80.6	80.3	80.8	80.3	78.2	70.3	65.3	60.3	55.3	50.3	
2000	80.0	79.9	79.4	79.0	77.3	75.7	76.8	77.2	78.7	77.8	77.4	78.0	77.7	75.6	67.6	62.6	57.6	52.6	47.6	
2500	76.8	76.8	76.3	75.8	74.2	72.6	73.8	74.1	75.6	74.7	74.4	75.0	74.7	72.6	64.6	59.6	54.6	49.6	44.6	
3150	73.4	73.4	72.9	72.4	70.8	69.2	70.4	70.8	72.3	71.4	71.1	71.8	71.5	69.4	61.5	56.5	51.5	46.5	41.5	
4000	69.4	69.5	68.9	68.5	67.0	65.5	66.5	66.8	68.3	67.3	67.1	67.8	67.7	65.8	57.8	52.8	47.8	42.8	37.8	
5000	65.1	65.2	64.6	64.1	62.7	61.4	62.1	62.4	63.9	62.9	62.6	63.4	63.5	61.7	53.7	48.7	43.7	38.7	33.7	
6300	60.5	60.6	59.9	59.5	58.1	57.0	57.5	57.7	59.1	58.1	57.9	58.6	58.9	57.3	49.3	44.3	39.3	34.3	29.3	
8000	56.3	56.5	55.7	55.3	53.9	52.9	53.1	53.2	54.6	53.7	53.5	54.4	54.8	53.6	45.6	40.6	35.6	30.6	25.6	
10000	51.9	52.1	51.2	50.8	49.4	48.5	48.5	48.5	49.8	49.0	48.9	49.8	49.8	49.5	40.9	35.9	30.9	25.9	20.9	
12500	47.4	47.5	46.5	46.2	44.6	43.7	43.8	43.7	45.1	44.3	44.3	45.3	45.3	45.0	36.3	31.3	26.3	21.3	16.3	
16000	42.6	42.5	41.5	41.3	39.5	38.6	38.7	38.7	40.0	39.4	39.5	40.4	40.4	40.1	31.3	26.3	21.3	16.3	11.3	
20000	37.4	37.2	36.2	36.0	34.0	33.1	33.4	33.6	34.7	34.3	34.4	35.2	35.4	34.7	25.9	20.9	15.9	10.9	5.9	
25000	31.8	31.4	30.4	30.3	28.2	27.4	28.1	28.7	29.5	29.3	29.5	29.8	29.7	28.9	20.5	15.5	10.5	5.5	.5	
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 DISTANCE = 250 FEET
 NOISE SOURCE/SUBJECT: P-3A AIRCRAFT
 ENG. T56-A-14
 GROUND RUNUP
 IDENTIFICATION: OMEGA 8.2
 TEST 74-004-007
 RUN 02
 AIRCRAFT CODE 137
 OPERATION CODE 02030
 PROFILE VERSION A
 07 NOV 75
 PAGE J2
 METEOROLOGY: TEMP = 59 F
 BAR PRESS = 29.92 IN HG
 REL HUMID = 70 %
 DELTA N = -3.0 DB

	P=PNLT											A=AL	T=ALT										
	20	30	40	50	60	70	80	90	100	110	120		20	30	40	50	60	70	80	90	100	110	120
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
>150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
(P-3A AIRCRAFT																
(ENG. T56-A-14																
(GROUND RUNUP																
(EST. C-130E +0.80B																
NOISE SOURCE/SUBJECT:																
(OPERATION:																
(POWER RUNUP, P-3A																
(1850 SHP																
(SINGLE ENGINE																
(EST. C-130E +0.80B																
METEOROLOGY:																
(TEMP = 59 F																
(BAR PRESS = 29.92 IN HG																
(REL HUMID = 70 %																
(DELTA N = -5.2 DB																
IDENTIFICATION:																
(OMEGA 8.2																
(TEST 74-004-007																
AIRCRAFT CODE 137																
OPERATION CODE J4009																
PROFILE VERSION A																
12 MAY 76																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160 >170 >180
50	71	72	72	70	72	71	73	75	78	79	79	79	76	75	73	67
63	89	85	91	88	91	92	95	98	104	105	106	102	98	94	88	82
80	78	77	80	77	80	81	83	86	92	93	94	91	86	83	79	72
100	76	75	74	72	74	75	76	75	79	77	78	80	79	76	73	66
125	82	81	79	77	80	84	82	87	91	91	88	85	86	81	74	67
160	81	80	77	76	77	79	79	81	84	84	83	83	83	81	71	64
200	80	80	77	78	78	83	80	79	81	82	81	82	80	80	69	62
250	82	78	79	81	79	83	81	80	82	84	81	81	82	81	69	62
315	85	81	81	82	81	88	84	81	84	84	83	83	84	81	72	66
400	81	81	81	79	80	85	80	78	82	82	80	82	81	78	71	64
500	80	79	81	80	80	87	81	79	83	82	81	82	81	78	72	66
630	82	81	80	80	79	84	80	77	82	82	78	80	79	76	71	64
800	78	80	78	78	79	84	79	76	80	81	78	78	77	75	71	65
1000	80	80	80	78	77	82	77	76	79	77	76	76	76	74	70	63
1250	78	78	78	77	76	80	77	77	78	79	76	75	76	73	68	62
1600	79	78	78	78	79	82	79	79	80	77	77	77	77	75	68	62
2000	79	78	78	77	79	80	79	77	79	77	76	76	76	74	67	60
2500	80	80	79	78	79	79	78	77	77	76	75	75	75	72	66	59
3150	79	79	80	78	79	79	79	79	79	76	75	75	74	72	66	60
4000	77	77	78	76	78	78	77	77	77	75	73	73	72	70	64	57
5000	76	77	78	76	77	77	77	76	75	74	73	72	72	69	63	56
6300	77	78	79	76	77	77	76	75	75	72	71	71	71	67	61	54
8000	80	82	82	79	78	77	76	75	74	72	70	70	68	66	59	52
10000	71	71	73	71	71	71	71	71	70	69	68	69	67	66	58	52
OVERALL	95	93	95	93	94	97	97	99	105	105	106	106	103	99	96	83
																77

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
P-3A AIRCRAFT																			
ENG. T56-A-14																			
GROUND RUNUP																			
EST. C-130E +0.808																			
OPERATION:																			
POWER RUNUP, P-3A																			
1850 SHP																			
SINGLE ENGINE																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -5.2 DB																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	107.4	107.0	107.3	105.9	106.6	108.3	107.1	106.7	109.2	108.9	108.4	109.7	107.1	104.9	102.3	95.9	89.0	82.1	75.1
250	105.1	104.8	105.0	103.6	104.4	106.1	104.8	104.4	107.0	106.8	106.2	106.6	105.0	102.8	100.1	93.6	86.7	79.7	72.8
315	102.8	102.4	102.7	101.3	102.0	103.8	102.5	102.1	104.8	104.6	104.1	104.4	102.8	100.6	97.9	91.4	84.3	77.4	70.4
400	100.4	100.0	100.2	98.8	99.6	101.4	100.1	99.7	102.6	102.4	101.9	102.2	100.6	98.3	95.7	89.0	81.9	74.9	67.9
500	97.8	97.5	97.7	96.3	97.0	98.9	97.6	97.2	100.3	100.1	99.6	100.0	98.3	96.0	93.4	86.4	79.3	72.3	65.2
630	95.2	94.8	94.9	93.6	94.3	96.2	94.9	94.5	98.0	97.8	97.3	97.6	95.9	93.6	90.9	83.7	76.6	69.7	62.5
800	92.4	92.0	92.1	90.7	91.4	93.5	92.1	91.8	95.5	95.4	94.9	95.2	93.5	91.1	88.2	81.0	73.9	66.8	59.5
1000	89.4	89.1	89.0	87.7	88.4	90.8	89.1	89.2	93.0	92.9	92.4	92.8	91.0	88.5	85.3	78.1	70.9	63.7	56.4
1250	86.3	85.9	85.8	84.5	85.2	88.0	85.8	86.1	90.3	90.2	89.8	90.2	88.3	85.5	82.3	75.1	67.7	60.5	52.7
1600	82.8	82.5	82.3	81.1	81.8	84.9	82.2	82.3	86.9	86.9	86.5	86.9	84.8	81.8	78.6	71.6	64.4	57.1	49.8
2000	79.2	78.8	78.6	77.4	78.1	81.8	78.6	78.2	82.9	83.0	82.6	83.1	80.7	77.8	74.9	68.3	61.1	53.5	44.6
2500	75.1	74.7	74.5	73.3	74.0	78.3	74.6	74.3	78.3	78.4	78.0	78.4	76.1	73.6	71.3	64.6	57.3	49.2	40.1
3150	70.8	70.3	70.0	69.2	69.7	74.3	70.4	70.0	73.3	73.3	72.8	73.2	71.1	69.4	67.0	60.4	52.8	44.0	35.2
4000	66.2	65.7	65.3	64.6	64.9	69.8	65.6	65.1	67.6	67.6	66.9	67.3	65.8	64.7	62.3	55.5	47.1	38.8	28.3
5000	61.2	60.8	60.3	59.7	59.7	64.9	60.4	60.0	62.6	62.6	61.0	61.5	60.7	59.7	57.2	49.8	41.4	32.2	17.3
6300	55.9	55.4	54.8	54.2	54.1	59.8	54.9	54.1	57.3	57.4	55.4	56.0	55.4	54.3	51.6	44.0	35.0	23.2	6.2
8000	51.3	50.8	50.3	49.6	49.4	55.6	50.4	49.0	53.0	53.1	51.0	51.7	50.9	49.7	46.8	38.5	29.2	14.4	
10000	45.8	45.3	44.8	44.0	43.9	50.9	45.1	43.4	48.1	48.1	45.9	46.8	46.0	44.6	41.5	33.1	20.7	5.7	
12500	39.5	38.8	38.7	38.2	37.6	45.7	39.0	37.4	42.2	42.4	40.1	41.0	39.8	38.5	35.3	26.0	11.3		
16000	32.3	31.8	32.2	31.2	31.0	39.6	32.0	30.0	35.4	35.9	33.4	34.1	33.4	31.8	27.9	15.2	1.9		
20000	23.4	22.0	23.8	22.4	22.1	32.5	24.1	19.3	28.2	28.2	26.5	27.3	26.0	22.7	17.9	4.4			
25000	7.9	12.2	10.2	8.8	8.4	24.1	9.6	8.6	16.5	16.8	17.3	19.5	13.9	8.8	7.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
P-JA AIRCRAFT																
ENG. T56-A-14																
GROUND RUNUP																
EST. C-130E +0.80dB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-007																
RUN 03																
AIRCRAFT CODE 137																
OPERATION CODE 04009																
PROFILE VERSION A																
12 MAY 76																
PAGE E1																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -5.2 DB																
ANGLE (DEGREES)																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	108.5	108.3	108.4	106.9	107.3	109.6	107.9	108.2	111.0	110.6	109.7	109.5	107.9	105.7	102.3	95.9
250	106.2	106.0	106.1	104.6	105.1	107.3	105.6	106.0	108.9	108.5	107.6	107.4	105.8	103.5	100.1	93.6
315	103.9	103.7	103.8	102.3	102.7	105.0	103.3	103.7	106.7	106.3	105.5	105.2	103.6	101.3	97.9	91.4
400	101.4	101.3	101.3	99.8	100.3	102.6	100.9	101.2	104.5	104.1	103.3	103.1	101.4	99.1	95.7	89.0
500	98.9	98.7	98.8	97.3	97.7	100.1	98.4	98.7	102.2	101.9	101.0	100.8	99.1	96.8	93.4	86.4
630	96.2	96.1	96.0	94.6	95.0	97.5	95.7	96.1	99.8	99.5	98.7	98.5	96.7	94.4	90.9	83.7
800	93.4	93.3	93.2	91.7	92.1	94.7	92.9	93.4	97.3	97.1	96.3	96.1	94.3	91.9	88.2	81.0
1000	90.5	90.3	90.1	88.7	89.1	92.0	89.9	90.7	94.8	94.6	93.8	93.6	91.7	89.3	85.3	78.1
1250	87.3	87.1	86.9	85.5	85.9	89.2	86.6	87.6	92.1	91.9	91.2	91.0	89.1	86.3	82.3	75.1
1600	83.9	83.7	83.4	82.0	82.5	86.2	83.0	83.8	88.8	88.6	87.9	87.7	85.6	82.6	78.6	71.6
2000	80.2	80.0	79.7	78.4	78.8	83.0	79.4	79.7	84.8	84.7	84.0	84.0	81.5	78.6	74.9	68.3
2500	76.1	75.9	75.6	74.3	74.7	79.5	75.4	75.8	80.2	80.1	79.3	79.3	76.9	74.4	71.3	64.6
3150	71.8	71.5	71.1	70.2	70.4	75.5	71.2	71.5	75.1	75.0	74.1	74.1	71.8	70.2	67.0	60.4
4000	67.1	66.7	66.2	65.4	65.5	70.8	66.2	66.4	69.1	69.0	68.0	68.0	65.4	63.3	60.4	52.8
5000	61.8	61.5	61.0	60.3	60.2	65.7	60.9	60.9	63.7	63.6	61.8	62.0	61.2	58.1	57.2	49.8
6300	56.3	55.9	55.2	54.6	54.4	60.3	55.3	54.8	58.0	58.1	55.9	56.3	55.7	54.5	51.6	44.0
8000	51.5	51.0	50.5	49.8	49.6	55.9	50.5	49.3	53.3	53.4	51.2	51.8	51.1	49.8	46.8	38.5
10000	45.8	45.3	44.8	44.0	43.9	50.9	45.1	43.4	48.1	48.1	45.9	46.8	46.0	44.6	41.5	33.1
12500	39.5	38.8	38.7	38.2	37.6	45.7	39.0	37.4	42.2	42.4	40.1	41.0	39.8	38.5	35.3	26.0
16000	32.3	31.8	32.2	31.2	31.0	39.6	32.0	30.0	35.4	35.9	33.4	34.1	33.4	31.8	27.9	15.2
20000	23.4	22.0	23.8	22.4	22.1	32.5	24.1	19.3	28.2	28.2	26.5	27.3	26.0	22.7	17.9	4.4
25000	7.9	12.2	10.2	8.8	8.4	24.1	9.6	8.6	16.5	16.8	17.3	19.5	13.9	8.8	7.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
DISTANCE (FEET)	ANGLE (DEGREES)															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	93.1	93.0	93.0	91.7	92.1	95.0	92.2	91.3	93.0	92.7	90.8	91.1	90.8	90.0	87.8	81.7
250	90.8	90.7	90.7	89.5	89.9	92.9	90.0	89.1	90.9	90.6	88.6	89.0	88.6	87.8	85.6	79.6
315	88.5	88.4	88.4	87.2	87.6	90.7	87.7	86.8	88.7	88.4	86.5	86.8	86.5	85.7	83.5	77.4
400	86.2	86.0	86.0	84.8	85.2	88.5	85.4	84.5	86.4	86.2	84.3	84.6	84.3	83.5	81.3	75.2
500	83.8	83.6	83.5	82.4	82.8	86.2	83.1	82.1	84.2	84.0	82.1	82.4	82.0	81.3	79.0	73.0
630	81.4	81.1	81.0	80.0	80.4	83.9	80.7	79.7	81.8	81.7	79.8	80.1	79.8	79.0	76.7	70.7
800	78.9	78.6	78.4	77.5	77.8	81.6	78.2	77.2	79.4	79.4	77.5	77.8	77.4	76.6	74.4	68.3
1000	76.4	76.0	75.8	74.9	75.2	79.2	75.6	74.6	77.0	77.0	75.1	75.5	75.0	74.2	71.9	65.9
1250	73.7	73.3	73.1	72.3	72.5	76.7	73.0	71.9	74.4	74.5	72.6	73.0	72.5	71.7	69.3	63.4
1600	70.9	70.6	70.3	69.5	69.7	74.1	70.2	69.0	71.7	71.8	69.8	70.2	69.8	69.0	66.6	60.8
2000	68.0	67.7	67.5	66.7	66.8	71.4	67.3	66.1	68.8	69.0	66.9	67.4	67.0	66.2	63.8	58.1
2500	64.9	64.7	64.4	63.6	63.7	68.4	64.1	62.9	65.7	66.0	63.7	64.2	63.9	63.0	60.7	55.1
3150	61.6	61.4	61.1	60.3	60.3	65.1	60.7	59.4	62.3	62.6	60.2	60.7	60.4	59.6	57.3	51.9
4000	57.9	57.7	57.4	56.7	56.6	61.5	57.0	55.6	58.5	59.0	56.4	56.8	56.6	55.8	53.5	48.3
5000	53.7	53.6	53.3	52.6	52.4	57.4	52.8	51.4	54.4	54.9	52.2	52.6	52.4	51.6	49.4	44.3
6300	49.3	49.2	48.9	48.2	48.0	53.0	48.3	46.9	50.0	50.5	47.8	48.1	48.0	47.2	44.9	39.9
8000	45.2	45.1	44.8	44.1	43.9	49.1	44.3	42.7	46.0	46.6	44.0	44.4	44.2	43.3	41.0	36.0
10000	40.8	40.7	40.4	39.8	39.5	44.9	40.0	38.3	41.9	42.4	40.0	40.5	40.1	39.2	36.8	31.7
12500	36.1	35.9	35.7	35.1	34.8	40.4	35.3	33.7	37.5	38.0	35.9	36.4	35.9	34.7	32.3	27.1
16000	30.9	30.7	30.6	30.0	29.7	35.5	30.4	28.9	32.9	33.3	31.7	32.3	31.4	30.0	27.6	22.1
20000	25.4	25.0	25.0	24.4	24.2	30.1	25.1	23.9	28.3	28.6	27.6	28.2	26.8	25.1	22.5	16.7
25000	19.4	18.8	19.0	18.3	18.3	24.1	19.6	19.1	23.9	24.1	23.8	24.4	22.3	20.1	17.4	11.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(P-3A AIRCRAFT)										(OMEGA 8.2)									
(ENG. T56-A-14)										(TEST 74-004-007)									
(GROUND RUNUP)										(RUN 03)									
(OPERATION:										(METEOROLOGY:									
(POWER RUNUP, P-3A)										(TEMP = 59 F)									
(1850 SHP)										(BAR PRESS = 29.92 IN HG)									
(SINGLE ENGINE)										(REL HUMID = 70 %)									
(EST. C-130E +0.00B)										(DELTA N = -5.2 DB)									
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	94.1	94.2	94.1	92.7	92.8	96.3	93.0	92.9	94.9	94.4	92.1	91.9	91.5	90.7	87.8	81.7	75.0	68.4	61.7
250	91.9	92.0	91.8	90.5	90.6	94.1	90.8	90.6	92.7	92.3	90.0	89.8	89.4	88.6	85.6	79.6	72.9	66.2	59.6
315	89.6	89.6	89.5	88.2	88.3	91.9	88.5	88.4	90.5	90.1	87.9	87.6	87.2	86.4	83.5	77.4	70.7	64.1	57.4
400	87.3	87.2	87.0	85.8	85.9	89.7	86.2	86.1	88.3	88.0	85.7	85.5	85.1	84.3	81.3	75.2	68.5	61.9	55.2
500	84.9	84.8	84.6	83.4	83.5	87.5	83.9	83.7	86.0	85.7	83.4	83.2	82.8	82.0	79.0	73.0	66.3	59.6	53.0
630	82.4	82.3	82.1	81.0	81.1	85.2	81.5	81.3	83.6	83.5	81.2	81.0	80.5	79.7	76.7	70.7	64.0	57.3	50.7
800	80.0	79.8	79.5	78.5	78.5	82.8	79.0	78.7	81.3	81.1	78.8	78.7	78.2	77.4	74.4	68.3	61.7	55.0	48.3
1000	77.4	77.2	76.9	75.9	75.9	80.4	76.4	76.1	78.8	78.7	76.4	76.3	75.8	75.0	71.9	65.9	59.3	52.6	45.9
1250	74.7	74.6	74.2	73.3	73.2	77.9	73.8	73.4	76.2	76.2	73.9	73.8	73.3	72.4	69.3	63.4	56.8	50.1	43.4
1600	71.9	71.8	71.4	70.5	70.4	75.3	71.0	70.6	73.5	73.5	71.1	71.1	70.6	69.7	66.6	60.8	54.1	47.5	40.8
2000	69.1	69.0	68.6	67.7	67.6	72.6	68.1	67.6	70.6	70.7	68.2	68.2	67.8	66.9	63.8	58.1	51.4	44.8	38.1
2500	66.0	65.9	65.5	64.6	64.4	69.6	64.9	64.4	67.5	67.7	65.1	65.0	64.6	63.8	60.7	55.1	48.5	41.8	35.1
3150	62.6	62.6	62.2	61.3	61.0	66.3	61.5	60.9	64.1	64.4	61.6	61.5	61.2	60.4	57.3	51.9	45.2	38.5	31.9
4000	58.7	58.7	58.2	57.5	57.2	62.5	57.6	56.8	60.0	60.3	57.5	57.5	57.3	56.5	53.5	48.3	41.6	35.0	28.3
5000	54.4	54.3	53.9	53.2	52.9	58.1	53.3	52.3	55.5	55.9	53.1	53.1	52.9	52.1	49.4	44.3	37.6	30.9	24.3
6300	49.7	49.7	49.3	48.6	48.3	53.5	48.6	47.5	50.7	51.2	48.4	48.5	48.3	47.5	44.9	39.9	33.3	26.6	19.9
8000	45.4	45.4	45.0	44.3	44.0	49.4	44.4	43.0	46.4	47.0	44.3	44.6	44.3	43.4	41.0	36.0	29.3	22.6	16.0
10000	40.8	40.7	40.4	39.8	39.5	44.9	40.0	38.3	41.9	42.4	40.0	40.5	40.1	39.2	36.8	31.7	25.0	18.4	11.7
12500	36.1	35.9	35.7	35.1	34.8	40.4	35.3	33.7	37.5	38.0	35.9	36.4	35.9	34.7	32.3	27.1	20.4	13.7	7.1
16000	30.9	30.7	30.6	30.0	29.7	35.5	30.4	28.9	32.9	33.3	31.7	32.3	31.4	30.0	27.6	22.1	15.4	8.7	2.1
20000	25.4	25.0	25.0	24.4	24.2	30.1	25.1	23.9	28.3	28.6	27.6	28.2	26.8	25.1	22.5	16.7	10.1	3.4	
25000	19.4	18.8	19.0	18.3	18.3	24.1	19.6	18.1	23.9	24.1	23.8	24.4	22.3	20.1	17.4	11.3	4.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8-2

TEST 74-004-007

RUN 03

AIRCRAFT CODE 137

OPERATION CODE 04003

PROFILE VERSION A

12 MAY 76

PAGE J1

NOISE SOURCE/SUBJECT:

P-3A AIRCRAFT

ENG. T56-A-14

GROUND RUNUP

OPERATION:

POWER RUNUP, P-3A

1850 SHP

SINGLE ENGINE

EST. C-130E +0.8DB

TEMP = 59 F

BAR PRESS =29.92 IN HG

REL HUMID = 70 %

DELTA N = -5.2 DB

METEOROLOGY:

	A=AL										T=ALT									
	P=PNLT																			
	10	20	30	40	50	60	70	80	90	100	110									
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

NOISE PRODUCED ON THE GROUND BY

S-3A AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 138
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6

POWER SETTING

TAKEOFF	- 97.2 % RPM, 3.03 EPR	. . . . .	408	-	416
CRUISE	- 60% RPM, 1.77 EPR	. . . . .	417	-	425
APPROACH	- 69% RPM, 2.0 EPR	. . . . .	426	-	434

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION

ALF-10-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

02 FEB 77

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO[illegible][illegible]

	30	40	50	60	70	80	90	100	MEAN	SD
50	(.	67.6	3.0
63	(.	68.0	2.2
80	(.	68.4	1.6
100	(.	73.7	4.0
125	(.	75.4	2.3
160	(.	72.1	3.6
200	(.	71.7	3.8
250	(.	75.3	3.1
315	(.	74.9	1.3
400	(.	75.4	1.8
500	(.	76.2	1.5
630	(.	77.9	2.1
800	(.	78.0	1.5
1000	(.	80.0	1.4
1250	(.	81.9	2.1
1600	(.	81.9	1.9
2000	(.	82.7	1.5
2500	(.	89.3	6.2
3150	(.	95.6	3.1
4000	(.	83.0	3.1
5000	(.	80.4	2.6
6300	(.	80.6	4.1
8000	(.	72.3	3.2
10000	(.	65.8	4.5

S-3A TAKEOFF POWER 97.2 % RPM 3.03 EPR
 AIRSPEED = 250 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-138-103-020277
 PNLT = 116.3 PND8
 PNL = 113.1 PND8
 ALT = 101.8 DBA
 AL = 98.6 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:				
AIR-TO-GROUND PROPAGATION																									OMEGA 6.6				
AIRCRAFT:																									A/C CODE: 138				
S-3A																									OPS CODE: 103				
																									PROFILE VER: A				
																									02 FEB 77				
																									PAGE H1				
																									DELTA N = 0.0 DB				
																									AIRSPEED = 250 KNOTS				
																									TAKEOFF POWER = 3.03 EPR				
																									97.2 % RPM				
																									METEOROLOGY:				
																									TEMP = 59 F				
																									REL HUMID = 70 %				
																									FREQUENCY BAND NUMBER				
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
200	82	82	82	88	90	86	86	90	89	90	91	93	93	95	97	98	99	107	114	104	102	105	102	103					
250	80	80	80	86	88	84	84	88	87	88	89	91	91	93	95	96	97	104	112	101	100	103	99	99					
315	78	78	78	84	86	82	82	86	85	86	87	89	89	91	93	94	95	102	110	99	97	100	96	95					
400	76	76	76	82	84	80	80	84	83	84	85	87	87	89	91	91	93	100	107	96	94	97	92	91					
500	74	74	74	80	82	78	78	81	81	82	83	84	85	87	89	89	90	97	104	93	91	93	88	86					
630	72	72	72	78	79	76	76	79	79	80	80	82	82	85	87	87	88	95	102	90	88	90	83	80					
800	70	70	70	76	77	74	74	77	77	78	78	80	80	82	84	84	85	92	99	87	84	85	78	74					
1000	68	68	68	74	75	72	72	75	75	75	76	78	78	80	82	82	83	89	96	83	80	81	72	66					
1250	66	66	66	72	73	70	70	73	73	73	74	76	76	78	79	79	80	86	92	79	76	75	65	56					
1600	64	64	64	70	71	68	68	71	71	71	72	73	73	75	77	76	77	83	88	74	71	69	57	45					
2000	61	62	62	68	69	66	65	69	68	69	69	71	71	72	74	73	73	79	84	69	65	61	47	31					
2500	59	60	60	65	67	64	63	67	66	67	67	68	68	70	71	70	70	75	79	63	58	52	35	14					
3150	57	58	58	63	65	62	61	64	64	64	65	66	65	67	68	66	66	70	73	56	50	41	20						
4000	55	56	56	61	63	59	59	62	61	62	62	63	62	63	64	62	61	65	66	47	40	28	2						
5000	53	54	54	59	61	57	56	60	59	59	59	60	59	60	60	58	56	58	58	37	28	12							
6300	51	51	52	57	58	55	54	57	56	56	56	57	55	56	56	52	50	51	49	24	14								
8000	49	49	50	55	56	52	52	55	54	53	53	53	51	51	50	46	42	42	38	9									
10000	47	47	47	52	54	50	49	52	51	50	49	49	47	46	44	39	34	31	24										
12500	45	45	45	50	51	47	46	49	47	46	45	45	42	40	37	31	23	18	7										
16000	42	43	43	47	49	45	43	46	44	42	41	39	36	33	29	20	11	2											
20000	40	40	40	45	46	42	40	42	40	38	36	33	29	24	19	8													
25000	38	38	38	42	43	38	36	38	35	33	30	26	20	14	7														

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 138	
(OPERATION:										OPS CODE: 103	
(TAKEOFF POWER										REL HUMID = 70 %	
(97.2 % RPM 3.03 EPR										PROFILE VER: A	
(										02 FEB 77	
(AIRSPEED = 250 KNOTS										PAGE M1	
(DELTA N = 0.0 DB											
SLANT DISTANCE										SELT**	
(FEET)										(DB)	
AL										SEL	
(DBA)										(DB)	
ALT**										PNLT**	
(DBA)										(PNDB)	
PNL										PNLT**	
(PNDB)										(PNDB)	
200										109.1	
250										107.8	
315										105.4	
400										104.8	
500										103.2	
630										101.4	
800										99.5	
1000										97.4	
1250										95.0	
1600										92.3	
2000										89.3	
2500										86.0	
3150										82.2	
4000										78.2	
5000										73.8	
6300										69.4	
8000										65.2	
10000										60.8	
12500										56.1	
16000										51.1	
20000										45.5	
25000										39.5	
										115.8	
										114.4	
										113.0	
										111.5	
										109.8	
										108.0	
										106.0	
										103.8	
										101.3	
										98.5	
										95.2	
										91.5	
										87.2	
										81.6	
										75.1	
										68.1	
										61.4	
										55.3	
										49.4	
										42.6	
										34.4	
										23.1	

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	S-3A	TAKEOFF POWER	A	P
200	(.)	(.)	(.)	(.)
250	(.)	(.)	(.)	(.)
315	(.)	(.)	(.)	(.)
400	(.)	(.)	(.)	(.)
500	(.)	(.)	(.)	(.)
630	(.)	(.)	(.)	(.)
800	(.)	(.)	(.)	(.)
1000	(.)	(.)	(.)	(.)
1250	(.)	(.)	(.)	(.)
1600	(.)	(.)	(.)	(.)
2000	(.)	(.)	(.)	(.)
2500	(.)	(.)	(.)	(.)
3150	(.)	(.)	(.)	(.)
4000	(.)	(.)	(.)	(.)
5000	(.)	(.)	(.)	(.)
6300	(.)	(.)	(.)	(.)
8000	(.)	(.)	(.)	(.)
10000	(.)	(.)	(.)	(.)
12500	(.)	(.)	(.)	(.)
16000	(.)	(.)	(.)	(.)
20000	(.)	(.)	(.)	(.)
25000	(.)	(.)	(.)	(.)

	10	20	30	40	50	60	70	80	MEAN	SD
50	55.3	3.2
63	X.	.	.	55.8	3.4
80	X	.	.	56.3	3.9
100	X.	.	.	57.0	4.3
125	X	.	61.9	3.1
160	X	.	62.7	2.9
200	X.	.	.	58.5	2.5
250	X	.	62.8	4.0
315	X	.	63.6	2.9
400	X	.	65.5	3.6
500	X	.	66.5	2.2
630	X	.	66.8	1.8
800	X	.	66.9	2.5
1000	X	.	67.6	2.7
1250	X	.	68.0	2.7
1600	X	.	71.2	2.2
2000	X.	.	75.2	6.2
2500	X.	.	68.7	3.9
3150	X	.	70.2	3.6
4000	X	.	74.3	5.2
5000	X.	.	65.5	5.1
6300	X	.	.	60.4	4.8
8000	X	.	.	54.2	4.3
10000	X	.	.	42.0	5.0

F R E Q U E N C Y I N H Z

MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB

S-3A CRUISE POWER 60 % RPM 1.77 EPR

AIRSPEED = 251 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-138-104-020277
 PNLT = 97.0 PND8
 PNL = 95.0 PND8
 ALT = 83.7 DBA
 AL = 81.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:																							
AIR-TO-GROUND PROPAGATION		OMEGA 6.6																							
AIRCRAFT:		A/C CODE: 138																							
		OPS CODE: 104																							
S-3A		PROFILE VER: A																							
		02 FEB 77																							
		PAGE H2																							
		DELTA N = 0.0 DB																							
		AIRSPEED = 250 KNOTS																							
		CRUISE POWER = 59 F																							
		60 % RPM 1.77 EPR																							
		REL HUMID = 70 %																							
		TEMP																							
		METEOROLOGY:																							
		FREQUENCY BAND NUMBER																							
SLANT		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
DISTANCE	(FEET)	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
200		67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
250		65	66	67	72	73	69	73	74	76	77	78	78	78	78	79	79	83	88	82	94	90	82	80	78
315		63	64	64	65	70	71	67	71	72	74	75	75	76	77	77	77	81	85	79	82	87	79	77	75
400		61	62	62	63	68	69	65	69	70	72	73	73	74	74	74	75	78	83	77	79	84	76	73	70
500		59	60	60	61	66	67	63	67	68	70	71	71	71	71	72	73	76	80	74	76	81	73	70	66
630		57	58	58	59	64	65	61	65	66	68	69	69	69	69	70	70	74	78	72	73	78	70	65	60
800		55	56	56	57	62	63	59	63	64	65	66	67	67	68	68	68	71	75	69	70	74	65	60	54
1000		53	54	54	55	60	61	56	61	61	63	64	65	65	65	65	65	68	72	66	67	70	61	55	47
1250		51	52	52	53	58	59	54	59	59	61	62	62	62	62	63	63	66	69	62	63	65	56	48	38
1600		49	50	50	51	56	56	52	56	57	59	60	60	60	60	60	60	63	66	58	58	50	40	28	6
2000		47	48	48	49	54	54	50	54	55	57	57	57	57	57	57	57	59	62	54	53	54	42	31	15
2500		45	46	46	47	52	52	48	52	53	54	55	55	55	54	54	54	55	58	49	47	46	34	20	
3150		43	44	44	44	49	50	46	50	50	52	52	52	51	51	51	50	51	53	44	40	37	24	6	
4000		41	41	42	42	47	48	43	47	48	49	49	49	48	47	46	46	47	48	37	32	27	12		
5000		39	39	40	40	45	45	41	45	45	46	46	45	44	43	41	41	41	41	29	22	14			
6300		37	37	38	38	43	43	38	42	42	43	43	43	42	40	38	36	35	34	20	11				
8000		35	35	35	36	40	40	36	39	39	40	39	38	35	33	30	27	25	9						
10000		32	33	33	33	38	38	33	36	36	36	35	33	30	27	22	19	14							
12500		30	30	31	31	35	35	30	33	32	32	31	28	24	20	14	8	1							
16000		28	28	28	28	32	32	26	29	28	27	25	22	16	11	3									
20000		25	25	25	25	29	29	23	25	24	22	19	14	8	1										
25000																									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*		IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION		OMEGA 6.6	
AIRCRAFT:		A/C CODE: 138	
S-3A		OPS CODE: 104	
		PROFILE VER: A	
		02 FEB 77	
		PAGE L2	
SLANT DISTANCE (FEET)		FREQUENCY BAND NUMBER	
200	64	65	65
250	62	63	63
315	60	61	61
400	58	59	59
500	56	57	57
630	54	55	55
800	52	53	53
1000	50	51	51
1250	48	49	49
1600	46	46	46
2000	43	42	42
2500	40	38	38
3150	36	34	34
4000	31	29	29
5000	26	24	24
6300	21	19	19
8000	19	17	17
10000	17	15	15
12500	14	13	13
16000	12	10	10
20000	10	8	8
25000	7	5	5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
* BASED ON SMOOTHED TONE CORRECTION FUNCTION.

200	(	S-3A	CRUISE POWER	A	+	*	P
250	(	60 % RPM	1.77 EPR	.	A +	.	* P.
315	(	AIR SPEED = 250 KNOTS		.		.	
400	(	TEMP = 59 F	REL HUMID = 70 %	.	A +	.	* P
500	(	DELTA N = 0.0 DB		.		.	
630	(	NO. OF RECORDS: 6		.	A +	.	* P
800	(	IDENT: 6.6-138-104-020277-A		.		.	
1000	(			.	A. +	.	*. P.
1250	(			.		.
1500	(			.	A +	.	* P
1750	(			.		.
2000	(			.	A. +	.	*. P.
2250	(			.		.
2500	(			.	A +	.	* P
2750	(			.		.
3000	(			.	A. +	.	*. P.
3250	(			.		.
3500	(			.	A +	.	* P
3750	(			.		.
4000	(			.	A +	.	* P
4250	(			.		.
4500	(			.	A. +	.	*. P.
4750	(			.		.
5000	(			.	A +	.	* P
5250	(			.		.
5500	(			.	A. +	.	*. P.
5750	(			.		.
6000	(			.	A +	.	* P
6250	(			.		.
6500	(			.	A. +	.	*. P.
6750	(			.		.
7000	(			.	A +	.	* P
7250	(			.		.
7500	(			.	A. +	.	*. P.
7750	(			.		.
8000	(			.	A +	.	* P
8250	(			.		.
8500	(			.	A. +	.	*. P.
8750	(			.		.
9000	(			.	A +	.	* P
9250	(			.		.
9500	(			.	A. +	.	*. P.
9750	(			.		.
10000	(			.	A +	.	* P
10250	(			.		.
10500	(			.	A. +	.	*. P.
10750	(			.		.
11000	(			.	A +	.	* P
11250	(			.		.
11500	(			.	A. +	.	*. P.
11750	(			.		.
12000	(			.	A +	.	* P
12250	(			.		.
12500	(			.	A. +	.	*. P.
12750	(			.		.
13000	(			.	A +	.	* P
13250	(			.		.
13500	(			.	A. +	.	*. P.
13750	(			.		.
14000	(			.	A +	.	* P
14250	(			.		.
14500	(			.	A. +	.	*. P.
14750	(			.		.
15000	(			.	A +	.	* P
15250	(			.		.
15500	(			.	A. +	.	*. P.
15750	(			.		.
16000	(			.	A +	.	* P
16250	(			.		.
16500	(			.	A. +	.	*. P.
16750	(			.		.
17000	(

S-T-E									
S-3A CRUISE POWER									
250	60 % RPM	1.77 EPR							
315	AIR SPEED = 250 KNOTS								
400	TEMP = 59 F	REL HUMID = 70 %							
500	DELTA N = 0.0 DB								
	NO. OF RECORDS: 6								
	IDENT: 6.6-138-10-020277-A								
S 630									
L 800									
N 1000									
D 1250									
I 1600									
S 2000									
A 2500									
N 3150									
I 4000									
F 5000									
E 6300									
E 8000									
10000									
12500									
16000									
20000									
25000									
GROUND TO GROUND									
E = EPNL									
T = SELT									
S = SEL									
X									
NOISE LEVEL IN DB									
20	30	40	50	60	70	80	90	100	

	20	30	40	50	60	70	80	90	MEAN	SD
50	59.6	5.0
63	59.0	5.4
80	58.6	6.0
100	62.2	7.0
125	68.0	3.9
160	68.2	1.6
200	63.7	1.7
250	64.9	5.4
315	64.2	3.7
400	63.9	3.7
500	65.0	2.3
630	65.1	2.7
800	66.7	1.6
1000	67.2	2.6
1250	69.3	2.2
1600	74.9	5.4
2000	86.2	7.0
2500	81.8	9.8
3150	74.0	1.7
4000	77.1	2.5
5000	74.0	4.2
6300	69.9	1.4
8000	64.6	3.1
10000	53.5	2.8

AIRSPEED = 140 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 S-3A
 APPROACH POWER
 69 % RPM
 2.0 EPR
 TEMP = 59 F
 REL HUMID = 70 %
 IDENT: 6.6-138-105-020277
 PNLT = 104.9 PNOB
 PNL = 102.3 PNOB
 ALT = 92.5 DBA
 AL = 89.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																								A/C CODE: 138	
S-3A																								OPS CODE: 195	
(PROFILE VER: A	
(02 FEB 77	
(PAGE H3	
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	74	73	73	76	82	82	78	79	79	78	80	80	82	82	85	91	103	99	92	97	95	94	93	89	
250	72	71	71	74	80	80	76	77	77	76	78	78	80	80	83	89	101	97	90	95	93	91	90	86	
315	70	69	69	72	78	78	74	75	74	74	76	76	78	78	81	87	98	95	88	92	90	89	87	82	
400	68	67	67	70	76	76	72	73	72	72	73	74	75	76	78	84	96	92	85	90	87	86	84	78	
500	66	65	65	68	74	74	70	71	70	70	71	72	73	74	76	82	94	90	83	87	85	82	80	73	
630	64	63	63	66	72	72	68	69	68	68	69	69	71	72	74	80	91	87	80	84	81	79	75	67	
800	62	61	61	64	70	70	66	67	66	66	67	67	69	70	72	77	89	85	77	81	78	75	70	61	
1000	60	59	59	62	68	68	64	65	64	64	65	65	67	67	69	75	86	82	74	77	74	70	65	53	
1250	58	57	57	60	66	66	62	63	62	62	63	63	64	65	67	72	83	79	71	73	70	65	58	44	
1600	56	55	54	58	64	64	60	61	60	60	61	61	62	62	64	70	80	75	67	69	65	58	50	34	
2000	53	53	52	56	62	62	57	59	58	57	58	58	60	60	61	67	77	72	63	64	59	51	40	20	
2500	51	51	50	54	60	60	55	56	56	55	56	56	57	57	58	63	74	68	58	58	52	43	29	4	
3150	49	49	48	52	58	58	53	54	53	53	53	53	54	54	55	60	70	63	52	51	45	32	14		
4000	47	47	46	50	55	55	51	52	51	50	51	51	51	51	52	56	65	58	46	42	35	20			
5000	45	45	44	48	53	53	49	49	48	48	48	47	48	47	48	51	60	52	38	33	24	5			
6300	43	43	42	45	51	51	46	47	46	45	45	44	45	43	43	46	54	44	29	21	10				
8000	41	40	40	43	49	49	44	44	43	42	42	41	41	39	38	40	47	36	18	6					
10000	39	38	38	41	46	46	41	42	40	39	38	37	36	34	33	33	39	26	5						
12500	37	36	35	39	44	44	38	39	37	35	35	32	31	28	26	25	29	13							
16000	35	34	33	36	41	41	35	36	34	31	30	27	25	21	18	15	17								
20000	32	31	30	34	39	38	32	32	30	27	25	22	19	13	8	4	2								
25000	30	29	28	31	36	35	29	28	25	22	19	15	11	4											

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION										OMEGA 6.6	
AIRCRAFT:										A/C CODE: 138	
(OPERATION:)										OPS CODE: 105	
(APPROACH POWER)										REL HUMID = 70 %	
(69 % RPM 2.0 EPR)										PROFILE VER: A	
()										02 FEB 77	
(AIRSPEED = 140 KNOTS)										PAGE 13	
METEOROLOGY:											
TEMP = 59 F											
DELTA N = 0.0 DB											
SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PML (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)				
200	107.4	110.0	120.0	122.6	106.7	110.6	113.5				
250	105.1	107.8	117.7	120.4	105.4	109.3	112.3				
315	102.8	105.4	115.4	118.1	104.1	108.0	111.0				
400	100.4	103.0	113.0	115.6	102.7	106.6	109.5				
500	97.9	100.5	110.5	113.2	101.2	105.1	108.1				
630	95.3	98.0	107.9	110.6	99.6	103.5	106.5				
800	92.7	95.3	105.2	107.8	98.0	101.9	104.7				
1000	89.8	92.5	102.3	104.9	95.1	100.0	102.9				
1250	86.9	89.5	99.3	101.9	94.2	98.1	100.8				
1600	83.7	86.3	96.0	98.6	92.0	95.9	98.5				
2000	80.3	82.9	92.5	95.1	89.6	93.5	96.0				
2500	76.6	79.2	88.7	91.4	86.9	90.8	93.3				
3150	72.5	75.1	84.6	87.3	83.8	87.7	90.2				
4000	68.0	70.1	80.1	82.3	80.3	83.4	85.9				
5000	63.0	64.6	75.2	76.8	76.3	78.7	81.2				
6300	57.5	58.6	69.7	70.7	71.8	73.4	75.9				
8000	51.7	52.2	63.6	64.1	67.0	67.8	70.0				
10000	45.9	45.9	56.6	56.6	62.2	62.2	63.2				
12500	40.7	40.7	48.5	48.5	58.0	58.0	56.2				
16000	36.2	36.2	41.9	41.9	54.5	54.5	50.5				
20000	31.9	31.9	35.1	35.1	51.2	51.2	44.7				
25000	27.8	27.8	28.0	28.0	48.1	48.1	38.7				

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

	S-3A	69 % RPM	APPROACH POWER	A	P
200	(.)	(.)	(.)	(.)	(.)
250	(.)	(.)	(.)	(.)	(.)
315	(.)	(.)	(.)	(.)	(.)
400	(.)	(.)	(.)	(.)	(.)
500	(.)	(.)	(.)	(.)	(.)
630	(.)	(.)	(.)	(.)	(.)
800	(.)	(.)	(.)	(.)	(.)
1000	(.)	(.)	(.)	(.)	(.)
1250	(.)	(.)	(.)	(.)	(.)
1600	(.)	(.)	(.)	(.)	(.)
2000	(.)	(.)	(.)	(.)	(.)
2500	(.)	(.)	(.)	(.)	(.)
3150	(.)	(.)	(.)	(.)	(.)
4000	(.)	(.)	(.)	(.)	(.)
5000	(.)	(.)	(.)	(.)	(.)
6300	(.)	(.)	(.)	(.)	(.)
8000	(.)	(.)	(.)	(.)	(.)
10000	(.)	(.)	(.)	(.)	(.)
12500	(.)	(.)	(.)	(.)	(.)
16000	(.)	(.)	(.)	(.)	(.)
20000	(.)	(.)	(.)	(.)	(.)
25000	(.)	(.)	(.)	(.)	(.)

	S-T-E									
200	S-3A APPROACH POWER									
250	69 % RPM 2.0 EPR									
315	AIRSPEED = 140 KNOTS									
400	TEMP = 59 F REL HUMID = 70 %									
500	DELTA N = 0.0 DB									
630	NO. OF RECORDS: 6									
800	IDENT: 6.6-138-105-020277-A									
1000	S T E									
1250	S T E									
1600	S T E									
2000	S T E									
2500	S T E									
3150	S T E									
4000	S T E									
5000	S T E									
6300	S T E									
8000	S T E									
10000	S T E									
12500	S T E									
16000	S T E									
20000	S T E									
25000	S T E									

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																									IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																										
(OPERATION:) METEOROLOGY:)																										
(APPROACH POWER)) TEMP = 59 F																										
(69 % RPM 2.0 EPR)) REL HUMID = 70 %																										
())																										
(AIRSPEED = 140 KNOTS) DELTA N = 0.0 DB																										
FREQUENCY BAND NUMBER																										
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
200	69	68	68	71	77	77	73	74	74	73	75	75	77	77	80	96	98	94	97	92	90	89	88	84		
250	67	66	66	69	75	75	71	72	72	71	73	73	75	75	78	84	96	92	85	90	88	86	85	81		
315	65	64	64	67	73	73	69	70	69	69	71	71	73	73	76	82	93	90	83	87	85	84	82	77		
400	63	62	62	65	71	71	67	68	67	67	68	69	70	71	73	79	91	87	80	85	82	81	79	73		
500	61	60	60	63	69	69	64	66	65	65	66	67	68	69	71	77	89	85	78	82	80	77	75	68		
630	59	58	58	61	66	66	62	63	63	63	64	64	66	67	69	75	86	82	75	79	76	74	70	62		
800	57	56	56	59	64	63	59	61	61	61	62	62	64	65	67	72	84	80	72	76	73	70	65	56		
1000	55	54	54	56	61	60	56	58	59	59	60	60	62	62	64	70	81	77	69	72	69	65	60	48		
1250	53	52	50	53	58	57	53	54	56	57	58	58	59	60	62	67	78	74	66	68	65	60	53	39		
1600	51	49	47	49	54	54	49	51	53	55	56	56	57	57	59	65	75	70	62	64	60	53	45	29		
2000	47	45	43	46	50	50	45	47	49	52	53	53	55	55	56	62	72	67	58	59	54	46	35	15		
2500	44	41	39	41	46	46	41	43	45	49	51	51	52	52	53	58	69	63	53	53	47	38	24			
3150	40	37	35	36	41	41	36	38	41	44	47	48	49	49	50	55	65	58	47	46	40	27	9			
4000	35	32	29	31	36	35	30	32	36	40	44	45	46	46	47	51	60	53	41	37	30	15				
5000	30	27	25	26	31	30	26	27	30	34	40	41	43	42	43	46	55	47	33	28	19					
6300	25	23	20	21	26	25	21	22	24	29	35	36	39	38	38	41	49	39	24	16	5					
8000	23	20	18	19	24	23	18	19	21	26	32	33	35	34	33	35	42	31	13	1						
10000	21	18	16	17	21	21	16	17	18	23	28	29	30	29	28	28	34	21	0							
12500	19	16	13	15	19	18	13	14	15	19	25	24	25	23	21	20	24	8								
16000	17	14	11	12	16	15	10	11	12	15	20	19	19	16	13	10	12									
20000	14	11	8	10	14	12	7	7	8	11	15	14	13	8	3											
25000	12	9	6	7	11	9	3	3	3	6	9	7	5													

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

IDENTIFICATION:

GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	69 % RPM	2.0 cPR	TEMP	METEOROLOGY:	DELTA N =	0.0 DB	PAGE M3
S-3A									
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)		
200	102.4	105.0	115.0	117.6	101.7	105.6	108.5		
250	100.1	102.8	112.7	115.4	103.4	104.3	107.3		
315	97.8	100.4	110.4	113.0	99.1	103.0	105.9		
400	95.4	98.0	108.0	110.0	97.7	101.6	104.5		
500	92.9	95.5	105.5	108.1	96.2	100.1	103.0		
630	90.3	93.0	102.9	105.5	94.6	98.5	101.4		
800	87.7	90.3	100.1	102.7	93.0	96.9	99.6		
1000	84.8	87.5	97.2	99.8	91.1	95.0	97.7		
1250	81.8	84.5	94.1	96.7	89.1	93.0	95.6		
1600	78.7	81.3	90.7	93.4	87.0	90.9	93.3		
2000	75.3	77.9	87.1	89.7	84.6	88.5	90.6		
2500	71.5	74.2	83.2	85.8	81.8	85.7	87.7		
3150	67.5	70.1	78.8	81.5	78.8	82.7	84.4		
4000	62.9	65.0	74.0	76.1	75.2	78.3	79.7		
5000	57.8	59.4	68.6	70.2	71.1	73.5	74.6		
6300	52.1	53.1	62.3	63.3	66.4	67.9	68.5		
8000	45.7	46.2	55.4	55.9	61.0	61.7	61.8		
10000	38.7	38.7	47.3	47.3	55.0	55.0	53.9		
12500	31.6	31.6	36.5	36.5	48.9	48.9	44.1		
16000	24.7	24.7	19.9	19.9	43.0	43.0	28.6		
20000	18.1	18.1	3.4	3.4	37.4	37.4	13.1		
25000	11.4	11.4			31.7	31.7			

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6

*** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																
1/3 OCTAVE BAND																
DISTANCE = 250 FEET																
NOISE SOURCE/SUBJECT:																
S-3A AIRCRAFT																
ENG. TF34-GE-2																
GROUND RUNUP																
OPERATION:																
LOW IDLE, 65% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-008																
RUN 01																
AIRCRAFT CODE 138																
OPERATION CODE 02011																
PROFILE VERSION A																
07 NOV 75																
PAGE C1																
BAND CENTER																
FREQ (HZ)																
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160 >170 >180
50	56	58	59	59	59	59	59	58	57	59	59	70	67	65	76	77 67 57
63	56	58	59	59	59	59	59	58	57	59	59	61	66	64	72	74 64 54
80	61	61	61	59	57	57	57	57	57	61	63	66	64	62	71	72 62 52
100	64	63	62	58	59	62	64	62	62	59	60	65	62	60	69	71 61 51
125	64	65	64	61	58	61	64	65	64	64	67	63	60	57	67	68 58 48
160	69	70	66	64	67	68	67	67	69	71	72	66	63	60	66	68 58 48
200	88	90	82	87	90	89	83	77	77	78	81	85	82	81	80	84 74 64
250	84	83	76	77	80	78	73	71	71	75	79	80	72	70	68	74 78 68 58
315	67	66	65	64	64	61	60	60	62	60	66	68	61	58	55	61 61 51 41
400	81	83	84	73	83	74	75	74	82	77	81	87	81	78	74	77 74 64 54
500	79	76	75	71	72	65	71	67	69	66	69	74	71	67	63	71 65 55 45
630	74	69	73	71	66	69	63	63	68	68	78	79	71	68	65	63 65 55 45
800	70	69	71	70	71	68	65	64	64	61	69	73	61	57	54	61 61 51 41
1000	69	69	68	66	70	67	62	61	61	58	63	67	58	55	52	58 48 38
1250	70	71	68	67	70	65	62	61	60	57	63	65	57	53	49	55 56 46 36
1600	72	70	70	67	72	68	63	63	62	60	63	65	58	54	50	57 56 46 36
2000	70	70	69	66	71	67	62	60	61	58	63	64	57	53	49	55 45 35
2500	69	70	70	66	73	67	60	59	59	55	60	63	56	53	50	57 56 46 36
3150	68	71	70	66	71	66	61	60	60	56	61	64	57	53	50	58 56 46 36
4000	68	70	70	67	70	67	62	63	62	58	62	66	60	56	52	60 59 49 39
5000	68	70	68	65	69	67	63	61	60	57	62	64	59	55	52	61 61 51 41
6300	67	68	68	66	69	66	63	61	60	58	62	62	58	54	51	58 59 49 39
8000	64	66	66	64	67	65	63	61	59	54	59	62	56	51	47	55 54 44 34
10000	59	61	60	58	61	60	57	55	54	50	55	57	46	42	49	49 39 29
OVERALL	91	92	88	88	92	90	85	81	84	82	86	91	86	84	82	84 87 77 67

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																	IDENTIFICATION:		
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	OMEGA 8.2		
NOISE SOURCE/SUBJECT:																	TEST 74-004-008		
(S-3A AIRCRAFT																	RUN 01		
(LOW IDLE, 65% RPM																	AIRCRAFT CODE 138		
(SINGLE ENGINE																	OPERATION CODE 02011		
(																	PROFILE VERSION A		
(																	07 NOV 75		
(																	PAGE 01		
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
ANGLE (DEGREES)																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	100.2	100.9	99.1	97.4	100.9	98.6	94.3	91.2	94.2	91.2	95.6	99.9	93.8	90.9	88.7	92.0	94.0	83.7	72.9
250	98.0	98.7	96.9	95.2	98.7	96.5	92.1	89.0	92.1	89.0	93.4	97.8	91.7	88.7	86.5	89.8	91.8	81.5	70.6
315	95.8	96.5	94.7	93.0	96.5	94.2	89.9	86.7	89.9	86.8	91.2	95.6	89.5	86.5	84.4	87.6	89.6	79.2	68.2
400	93.5	94.2	92.4	90.7	94.2	91.9	87.5	84.3	87.6	84.6	88.9	93.4	87.2	84.2	82.0	85.3	87.3	76.8	65.6
500	91.0	91.7	90.0	88.2	91.7	89.4	85.0	81.7	85.3	82.2	86.6	91.1	84.9	81.7	79.5	82.9	84.8	74.1	62.9
630	88.4	89.1	87.6	85.5	89.0	86.7	82.3	79.2	82.8	79.7	84.2	88.7	82.5	79.2	76.7	80.5	82.2	71.3	59.8
800	85.6	86.3	85.0	82.7	86.2	83.9	79.4	76.5	80.3	77.2	81.6	86.3	80.0	76.7	73.8	77.9	79.3	68.3	56.8
1000	82.7	83.3	82.4	79.6	83.3	80.9	76.2	73.8	77.8	74.6	79.0	83.7	77.5	74.1	70.9	75.3	76.2	65.1	53.3
1250	79.4	80.2	79.6	76.2	80.0	77.5	72.9	70.9	75.1	71.9	76.3	81.1	74.8	71.4	68.2	72.5	72.9	61.5	49.5
1600	76.3	77.3	76.8	72.6	77.0	73.8	69.5	67.9	72.3	69.0	73.5	78.4	72.0	68.6	65.2	69.5	69.1	57.6	44.8
2000	73.2	74.2	73.8	69.7	73.9	69.8	66.3	64.8	69.5	66.0	70.6	75.5	69.1	65.5	62.2	66.4	65.2	53.7	40.3
2500	69.3	70.3	69.9	64.3	70.0	65.4	62.3	60.8	65.5	61.9	66.6	71.7	65.0	61.4	58.0	62.3	60.8	49.2	34.6
3150	64.9	65.9	65.5	59.5	65.6	60.3	57.8	56.1	61.1	57.5	62.3	67.4	60.5	56.9	53.4	57.5	56.1	43.5	28.1
4000	60.5	61.0	60.6	55.0	60.6	54.7	52.4	50.7	56.0	52.2	57.5	62.5	55.4	51.7	48.1	51.9	50.3	37.2	18.2
5000	55.4	55.3	55.0	49.6	55.1	48.4	46.3	44.6	50.2	46.2	52.6	57.0	49.7	45.7	41.3	46.1	43.9	29.0	7.5
6300	50.2	49.4	49.0	43.7	49.0	42.4	40.4	37.5	43.9	39.4	47.3	51.2	43.3	39.3	34.3	39.0	36.6	19.1	
8000	45.6	44.9	44.7	38.7	44.5	37.2	34.9	32.3	39.3	34.4	42.6	47.3	38.7	34.4	30.2	34.3	31.9	10.3	
10000	40.4	39.8	39.3	32.9	39.4	30.9	29.0	25.8	34.2	29.2	37.3	42.8	34.4	30.0	26.0	29.5	27.1	1.5	
12500	34.7	34.3	33.5	25.0	33.5	23.8	21.6	17.7	29.3	24.0	31.1	38.1	29.7	24.9	18.6	23.3	19.6		
16000	28.5	28.1	27.9	16.4	26.8	15.3	13.5	9.3	23.8	15.1	24.8	32.9	24.2	16.4	10.7	16.3	9.3		
20000	19.4	21.1	20.8	7.8	19.5	8.1	5.4	.9	15.7	7.4	16.1	26.4	14.8	8.6	2.8	6.9			
25000	10.2	10.0	10.9		9.5	1.0			6.9		7.5	17.1	5.4	.9					

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(S-3A AIRCRAFT																			
(ENG. TF34-GE-2																			
(GROUND RUNUP																			
(OPERATION:																			
(LOW IDLE, 65% RPM																			
(SINGLE ENGINE																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -3.0 DB																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 74-004-008																			
(RUN 01																			
(AIRCRAFT CODE 130																			
(OPERATION CODE 02011																			
(PROFILE VERSION A																			
(07 NOV 75																			
(PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180	
200	101.7	103.1	101.4	100.1	103.4	100.9	96.5	92.9	97.0	93.5	98.6	102.7	96.4	93.4	91.4	93.8	95.9	85.6	74.8
250	99.5	101.0	99.2	97.9	101.3	98.7	94.3	90.7	94.8	91.3	96.4	100.6	94.2	91.3	89.3	91.6	93.7	83.4	72.5
315	97.3	98.8	97.0	95.7	99.1	96.5	92.1	88.4	92.6	89.1	94.2	98.4	92.0	89.1	87.1	89.3	91.5	81.1	70.1
400	95.0	96.4	94.7	93.4	96.7	94.2	89.7	86.0	90.3	86.8	92.0	96.2	89.8	86.8	84.8	87.0	89.2	78.7	67.5
500	92.5	93.9	92.4	90.8	94.2	91.6	87.2	83.4	88.0	84.5	89.6	93.9	87.4	84.3	82.3	84.7	86.7	76.0	64.8
630	89.9	91.3	89.9	88.2	91.6	89.0	84.5	80.9	85.6	82.0	87.2	91.5	85.0	81.8	79.5	82.2	84.1	73.2	61.7
800	87.2	88.5	87.4	85.4	88.8	86.2	81.6	78.2	83.1	79.5	84.7	89.0	82.6	79.3	76.6	79.7	81.2	70.2	58.5
1000	84.2	85.5	84.7	82.3	85.8	83.1	78.4	75.5	80.5	76.8	82.0	86.5	80.0	76.7	73.7	77.0	78.1	66.9	55.2
1250	80.9	82.5	82.0	78.9	82.5	79.8	75.1	72.6	77.8	74.1	79.3	83.9	77.3	74.0	70.9	74.3	74.7	63.4	51.3
1600	77.8	79.6	79.1	75.3	79.6	76.1	71.7	69.6	75.1	71.3	76.5	81.1	74.5	71.1	68.0	71.3	71.0	59.5	46.7
2000	74.7	76.5	76.1	71.3	76.5	72.1	68.5	66.5	72.2	68.3	73.6	78.3	71.6	68.1	64.9	68.2	67.0	55.6	42.7
2500	70.8	72.5	72.2	67.0	72.5	67.6	64.5	62.5	68.2	64.2	69.7	74.5	67.5	64.0	60.8	64.0	62.7	51.0	36.5
3150	66.5	68.1	67.8	62.2	68.1	62.6	60.0	57.8	63.8	59.7	65.3	70.2	63.0	59.5	56.1	59.2	58.0	45.4	30.0
4000	61.7	62.8	62.5	57.1	62.7	56.5	54.1	52.1	58.2	54.1	59.9	64.7	57.4	53.7	50.3	53.3	51.8	38.7	19.7
5000	56.4	56.6	56.4	51.2	56.6	49.8	47.6	45.6	51.9	47.6	54.4	58.7	51.2	47.2	42.9	47.1	45.1	30.1	8.7
6300	50.8	50.3	50.0	44.8	50.0	43.3	41.3	38.2	45.0	40.3	48.5	52.3	44.3	39.3	35.3	39.7	37.3	19.9	
8000	45.9	45.3	45.1	39.3	45.0	37.7	35.3	32.6	39.9	34.9	43.2	47.8	39.2	34.9	30.7	34.6	32.3	10.7	
10000	40.4	39.8	39.3	32.9	39.4	30.9	29.0	25.8	34.2	29.2	37.3	42.8	34.4	30.0	26.0	29.5	27.1	1.5	
12500	34.7	34.3	33.5	25.0	33.5	23.8	21.6	17.7	29.3	24.0	31.1	38.1	29.7	24.9	18.6	23.3	19.6		
16000	28.5	28.1	27.9	16.4	26.8	15.3	13.5	9.3	23.8	15.1	24.0	32.9	24.2	16.4	10.7	16.3	9.3		
20000	19.4	21.1	20.8	7.8	19.5	8.1	5.4	.9	15.7	7.4	16.1	26.4	14.8	8.6	2.8	6.9			
25000	10.2	10.0	10.9		9.5	1.0			6.9		7.5	17.1	5.4						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
S-3A AIRCRAFT																			
ENG. TF34-GE-2																			
GROUND RUNUP																			
(OPERATION:																			
(LOW IDLE, 65% RPM																			
(SINGLE ENGINE																			
(
(
(
) METEOROLOGY:																			
) TEMP = 59 F																			
) BAR PRESS = 29.92 IN HG																			
) REL HUMID = 70 %																			
) DELTA N = -3.0 DB																			
) IDENTIFICATION:																			
) OMEGA 8.2																			
) TEST 74-004-008																			
) RUN 01																			
) AIRCRAFT CODE 138																			
) OPERATION CODE 02011																			
) PROFILE VERSION A																			
) 07 NOV 75																			
) PAGE F1																			
) DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	86.7	87.1	85.8	82.9	87.1	83.8	79.9	77.5	80.9	78.0	83.2	87.4	81.1	78.2	75.7	78.4	79.0	69.0	59.0
250	84.6	85.0	83.6	80.8	85.0	81.7	77.7	75.4	78.8	75.9	81.1	85.4	79.0	76.1	73.6	76.3	77.0	67.0	57.0
315	82.5	82.8	81.4	78.6	82.8	79.5	75.6	73.2	76.7	73.8	79.0	83.3	76.9	74.1	71.6	74.2	74.9	64.9	54.9
400	80.3	80.6	79.2	76.4	80.6	77.3	73.3	70.9	74.6	71.7	76.9	81.2	74.8	71.9	69.4	72.0	72.7	62.7	52.7
500	78.0	78.3	77.0	74.0	78.2	74.9	71.0	68.6	72.4	69.5	74.7	79.1	72.6	69.7	67.2	69.8	70.4	60.4	50.4
630	75.7	75.9	74.7	71.6	75.8	72.4	68.6	66.3	70.3	67.2	72.5	76.9	70.4	67.5	64.9	67.5	67.9	57.9	47.9
800	73.2	73.5	72.3	69.1	73.3	69.7	66.1	63.8	68.0	64.9	70.2	74.6	68.2	65.2	62.5	65.2	65.4	55.4	45.4
1000	70.7	70.9	70.0	66.4	70.8	67.0	63.6	61.3	65.8	62.6	67.9	72.4	65.9	62.8	60.1	62.8	62.7	52.7	42.7
1250	68.1	68.3	67.5	63.7	68.1	64.1	61.0	58.8	63.5	60.1	65.6	70.1	63.6	60.4	57.6	60.4	59.9	49.9	39.9
1600	65.5	65.6	65.0	60.9	65.4	61.1	58.3	56.2	61.2	57.7	63.2	67.8	61.2	58.0	55.1	57.9	57.0	47.0	37.0
2000	62.7	62.9	62.5	58.0	62.6	57.9	55.5	53.5	58.8	55.2	60.7	65.4	58.8	55.5	52.5	55.4	54.0	44.0	34.0
2500	59.5	59.4	59.2	54.8	59.0	54.4	52.2	50.2	55.3	51.7	57.6	62.0	55.3	52.0	49.0	52.0	50.4	40.4	30.4
3150	55.9	55.5	55.4	51.3	55.1	50.6	48.5	46.5	51.4	48.0	54.3	58.4	51.5	48.2	45.1	48.2	46.4	36.4	26.4
4000	51.9	51.2	51.3	47.5	50.8	46.5	44.4	42.6	47.1	43.8	50.4	54.2	47.2	43.9	40.8	43.9	42.0	32.0	22.0
5000	47.5	46.6	46.7	43.3	46.2	42.2	40.0	38.2	42.2	39.1	46.0	49.6	42.4	39.1	36.0	39.3	37.4	27.4	17.4
6300	42.9	41.9	42.0	38.9	41.4	37.7	35.4	33.6	37.2	34.3	41.5	44.9	37.6	34.2	31.1	34.6	32.7	22.7	12.7
8000	39.3	38.2	38.4	35.1	37.6	33.8	31.8	29.9	33.9	30.9	38.0	41.5	34.3	31.0	27.9	31.3	29.4	19.4	9.4
10000	35.5	34.5	34.6	31.0	33.7	29.8	28.0	25.9	30.3	27.3	34.2	37.8	30.8	27.5	24.4	27.8	25.8	15.8	5.8
12500	31.4	30.5	30.5	26.6	29.6	25.6	24.0	21.7	26.5	23.3	30.0	33.8	27.0	23.7	20.6	23.9	22.1	12.1	2.1
16000	27.0	26.3	26.0	21.9	25.3	21.2	19.6	17.2	22.3	19.0	25.3	29.4	22.8	19.5	16.5	19.7	18.1	8.1	
20000	22.1	21.7	21.1	17.0	20.8	16.8	14.9	12.3	17.6	14.3	20.1	24.5	18.1	14.9	12.0	15.1	13.9	3.9	
25000	16.9	16.8	15.8	11.8	16.0	12.3	9.9	7.0	12.4	9.1	14.3	19.1	12.9	9.8	7.1	10.0	9.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										METEOROLOGY:										
S-3A AIRCRAFT										TEMP = 59 F										
ENG. TF34-GE-2										BAR PRESS = 29.92 IN HG										
GROUND RUNUP										REL HUMID = 70 %										
										DELTA N = -3.0 DB										
ANGLE (DEGREES)																				
DISTANCE (FEET)																				
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180		
200	86.2	89.3	88.1	85.6	89.6	86.1	82.1	79.2	83.6	80.3	86.2	90.2	83.6	80.7	78.4	80.1	80.9	70.9	60.9	
250	86.1	87.2	86.0	83.5	87.5	84.0	79.9	77.1	81.5	78.2	84.1	88.1	81.5	78.7	76.4	78.0	78.9	68.9	58.9	
315	84.0	85.0	83.8	81.3	85.3	81.8	77.8	74.9	79.4	76.1	82.0	86.1	79.5	76.6	74.3	75.9	76.8	66.8	56.8	
400	81.8	82.8	81.6	79.1	83.1	79.6	75.6	72.6	77.3	74.0	79.9	84.0	77.3	74.5	72.2	73.8	74.6	64.6	54.6	
500	79.6	80.5	79.3	76.7	80.8	77.1	73.2	70.3	75.2	71.8	77.7	81.8	75.2	72.3	69.9	71.6	72.3	62.3	52.3	
630	77.2	78.1	77.0	74.2	78.4	74.6	70.8	67.9	73.0	69.5	75.5	79.6	73.0	70.0	67.6	69.3	69.8	59.8	49.8	
800	74.8	75.7	74.7	71.7	75.9	72.0	68.3	65.5	70.8	67.2	73.2	77.4	70.7	67.7	65.3	66.9	67.3	57.3	47.3	
1000	72.3	73.1	72.3	69.1	73.3	69.3	65.6	63.0	68.5	64.8	70.9	75.2	68.4	65.4	62.9	64.5	64.6	54.6	44.6	
1250	69.7	70.5	69.9	66.4	70.6	66.4	63.2	60.5	66.2	62.4	68.6	72.9	66.1	63.0	60.4	62.1	61.8	51.8	41.8	
1600	67.0	67.8	67.4	63.5	67.9	63.4	60.5	57.9	63.9	60.0	66.2	70.5	63.7	60.5	57.8	59.6	58.9	48.9	38.9	
2000	64.2	65.1	64.9	60.6	65.1	60.2	57.7	55.2	61.5	57.4	63.7	68.1	61.3	58.1	55.3	57.1	55.9	45.9	35.9	
2500	61.0	61.6	61.5	57.4	61.5	56.7	54.4	51.9	58.0	54.0	60.6	64.8	57.8	54.6	51.7	53.7	52.3	42.3	32.3	
3150	57.4	57.7	57.8	54.0	57.6	52.9	50.7	48.3	54.1	50.3	57.3	61.1	54.0	50.7	47.8	49.9	48.3	38.3	28.3	
4000	53.1	53.0	53.2	49.6	52.9	48.3	46.2	43.9	49.2	45.6	52.8	56.5	49.2	45.9	42.9	45.3	43.5	33.5	23.5	
5000	48.4	47.9	48.1	44.9	47.7	43.6	41.3	39.2	43.8	40.5	47.9	51.3	43.9	40.6	37.6	40.3	38.5	28.5	18.5	
6300	43.5	42.7	42.9	40.0	42.4	38.6	36.3	34.3	38.3	35.2	42.7	46.0	38.6	35.3	32.2	35.3	33.5	23.5	13.5	
8000	39.6	38.7	38.8	35.6	38.1	34.3	32.3	30.2	34.4	31.4	38.6	42.1	34.8	31.5	28.4	31.7	29.7	19.7	9.7	
10000	35.5	34.5	34.6	31.0	33.7	29.8	28.0	25.9	30.3	27.3	34.2	37.8	30.8	27.5	24.4	27.8	25.8	15.8	5.8	
12500	31.4	30.5	30.5	26.6	29.6	25.6	24.0	21.7	26.5	23.3	30.0	33.8	27.0	23.7	20.6	23.9	22.1	12.1	2.1	
16000	27.0	26.3	26.0	21.9	25.3	21.2	19.6	17.2	22.3	19.0	25.3	29.4	22.8	19.5	16.5	19.7	18.1	8.1		
20000	22.1	21.7	21.1	17.0	20.8	16.8	14.9	12.3	17.6	14.3	20.1	24.5	18.1	14.9	12.0	15.1	13.9	3.9		
25000	16.9	16.8	15.8	11.8	16.0	12.3	9.9	7.0	12.4	9.1	14.3	19.1	12.9	9.8	7.1	10.0	9.5			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-008

RUN 01

NOISE SOURCE/SUBJECT:

S-3A AIRCRAFT

ENG. TF34-GE-2

GROUND RUNUP

OPERATION:

LOW IDLE, 65% RPM

SINGLE ENGINE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

AIRCRAFT CODE 138

OPERATION CODE 02011

PROFILE VERSION A

07 NOV 75

PAGE J1

	10	20	30	40	50	60	70	80	90	100	110
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

[illegible]

TABLE: PERCEIVED NOISE LEVEL (PNDB)																													
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																													
NOISE SOURCE/SUBJECT:										METEOROLOGY:										IDENTIFICATION:									
(S-3A AIRCRAFT										(TEMP = 59 F										(OMEGA 8.2									
(ENG. TF34-GE-2										(BAR PRESS =29.92 IN HG										(TEST 74-004-008									
(GROUND RUNUP										(REL HUMID = 70 %										(RUN 02									
((DELTA N = -3.0 DB										(AIRCRAFT CODE 138									
(((OPERATION CODE 02012									
(((PROFILE VERSION A									
(((07 NOV 75									
(((PAGE D2									
DISTANCE (FEET)																													
ANGLE (DEGREES)																													
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180										
200	99.9	100.4	102.1	100.5	100.5	98.9	95.3	90.3	92.2	95.6	97.9	98.7	100.2	102.5	101.4	98.1	95.6	85.5	75.2										
250	97.7	98.1	99.8	98.2	98.3	96.6	93.0	87.9	89.9	93.4	95.5	96.3	97.8	100.2	99.1	95.8	93.4	83.2	72.8										
315	95.3	95.8	97.5	95.8	95.8	94.3	90.7	85.5	87.4	91.0	93.1	93.9	95.4	97.9	96.8	93.5	91.0	80.8	70.4										
400	92.9	93.3	95.1	93.4	93.5	91.8	88.2	82.9	84.9	88.6	90.5	91.4	92.8	95.5	94.4	91.1	88.6	78.4	67.9										
500	90.4	90.8	92.5	90.9	91.0	89.3	85.7	80.2	82.2	86.0	87.9	88.8	90.2	93.0	91.9	88.5	86.1	75.8	65.3										
630	87.7	88.1	89.8	88.2	88.3	86.6	83.0	77.5	79.3	83.4	85.0	86.1	87.4	90.3	89.2	85.9	83.4	73.1	62.6										
800	84.9	85.3	87.0	85.4	85.5	83.8	80.1	74.6	76.2	80.5	82.2	83.3	84.6	87.5	86.4	83.1	80.6	70.3	59.6										
1000	82.0	82.3	84.0	82.4	82.5	80.8	77.0	71.6	73.2	77.5	79.2	80.3	81.6	84.5	83.4	80.1	77.6	67.2	56.4										
1250	78.7	79.1	80.8	79.2	79.3	77.5	73.7	68.3	69.9	74.2	75.9	77.1	78.4	81.3	80.2	76.9	74.4	64.0	52.8										
1600	75.3	75.6	77.3	75.8	75.9	74.0	70.3	64.7	66.3	70.7	72.4	73.6	74.9	77.8	76.8	73.4	70.9	60.4	49.1										
2000	71.6	71.9	73.5	72.0	72.2	70.2	66.3	60.7	62.4	66.9	68.6	69.8	71.1	74.0	73.0	69.6	67.1	56.5	44.3										
2500	67.5	67.7	69.3	67.9	68.0	66.0	62.1	56.3	58.0	62.6	64.4	65.6	67.0	69.9	68.9	65.5	63.0	51.8	38.9										
3150	62.8	63.0	64.7	63.3	63.4	61.3	57.1	51.2	53.0	57.7	59.7	60.9	62.3	65.2	64.3	60.9	58.2	46.6	32.9										
4000	57.7	58.2	59.4	58.8	58.1	56.0	51.7	45.1	47.4	52.2	54.8	55.8	57.2	59.9	59.0	55.4	53.0	40.6	24.5										
5000	52.8	53.3	54.0	54.0	52.5	49.9	45.0	38.5	41.5	45.6	48.9	49.9	51.8	53.8	53.3	49.7	47.5	34.5	11.9										
6300	47.2	47.7	48.4	48.4	46.5	43.1	37.7	31.5	34.7	39.4	42.6	43.4	45.9	46.9	47.5	43.5	41.4	26.9											
8000	40.7	41.2	42.0	42.2	39.8	36.2	30.1	21.3	26.8	32.2	36.2	37.0	39.5	40.4	41.1	37.4	34.9	11.3											
10000	32.9	33.4	34.4	34.6	31.9	27.1	16.6	11.2	14.6	20.8	27.2	28.7	32.0	33.1	34.1	30.3	24.9												
12500	20.6	20.8	23.6	24.1	19.6	15.1	3.2	1.0	2.3	9.3	14.1	16.5	21.7	21.8	23.8	22.1	11.4												
16000	8.2	8.2	12.8	13.5	7.2	3.0					1.1	4.2	7.5	7.5	9.3	8.8													
20000			2.1	3.0																									
25000																													
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																													

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
S-3A AIRCRAFT																			
ENG. TF34-GE-2																			
GROUND RUNUP																			
(OPERATION:)																			
(HIGH IDLE, 73% RPM)																			
(SINGLE ENGINE)																			
()																			
()																			
METEOROLOGY:																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-008																			
RUN 02																			
AIRCRAFT CODE 138																			
OPERATION CODE 02012																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE F2																			
ANGLE (DEGREES)																			
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
(FEET)																			
200	86.9	87.6	88.0	87.5	87.3	85.4	81.2	76.0	78.1	81.8	83.9	84.9	86.3	88.5	87.7	84.2	81.6	71.6	61.6
250	84.7	85.3	86.6	85.2	85.0	83.2	78.9	73.7	75.8	79.5	81.6	82.6	84.1	86.2	85.4	82.0	79.4	69.4	59.4
315	82.4	83.0	84.2	82.9	82.8	80.8	76.5	71.4	73.4	77.2	79.3	80.3	81.7	83.9	83.1	79.7	77.1	67.1	57.1
400	80.1	80.7	81.8	80.6	80.4	78.4	74.1	69.0	71.0	74.8	76.9	77.9	79.3	81.5	80.8	77.3	74.7	64.7	54.7
500	77.7	78.3	79.4	78.2	78.0	76.0	71.6	66.5	68.5	72.3	74.4	75.4	76.9	79.0	78.3	74.9	72.3	62.3	52.3
630	75.2	75.7	76.8	75.7	75.5	73.4	69.0	63.9	66.0	69.7	71.9	72.8	74.3	76.4	75.8	72.4	69.8	59.8	49.8
800	72.6	73.1	74.2	73.2	72.9	70.8	66.3	61.2	63.3	67.1	69.3	70.2	71.7	73.8	73.2	69.8	67.3	57.3	47.3
1000	70.0	70.4	71.4	70.5	70.2	68.0	63.5	58.4	60.5	64.3	66.5	67.4	68.9	71.0	70.5	67.1	64.6	54.6	44.6
1250	67.2	67.6	68.5	67.7	67.4	65.0	60.6	55.5	57.6	61.4	63.6	64.5	66.1	68.0	67.6	64.3	61.8	51.8	41.8
1500	64.2	64.6	65.5	64.8	64.4	62.0	57.4	52.5	54.6	58.3	60.6	61.5	63.1	64.9	64.6	61.4	58.9	48.9	38.9
2000	61.1	61.4	62.3	61.7	61.2	58.7	54.2	49.3	51.5	55.1	57.5	58.3	60.0	61.6	61.5	58.4	55.9	45.9	35.9
2500	57.8	58.1	58.9	58.5	57.8	55.2	50.7	45.9	48.2	51.7	54.2	55.0	56.7	58.1	58.2	55.2	52.7	42.7	32.7
3150	54.2	54.5	55.2	55.0	54.1	51.5	46.9	42.3	44.7	48.1	50.6	51.4	53.2	54.4	54.7	51.9	49.3	39.3	29.3
4000	50.4	50.6	51.3	51.2	50.1	47.5	42.9	38.5	40.9	44.2	46.8	47.5	49.3	50.4	51.0	48.2	45.6	35.6	25.6
5000	46.1	46.4	47.0	47.1	45.8	43.1	38.5	34.3	36.6	39.9	42.6	43.2	45.1	46.0	46.8	44.1	41.5	31.5	21.5
6300	41.5	41.8	42.3	42.5	41.0	38.3	33.8	29.7	32.1	35.2	38.0	38.6	40.5	41.2	42.3	39.7	37.1	27.1	17.1
8000	36.5	36.7	37.3	37.6	36.0	33.3	28.9	25.0	27.4	30.4	33.3	33.9	35.9	36.4	37.7	35.3	32.5	22.5	12.5
10000	30.9	31.2	31.8	32.1	30.5	28.1	23.7	19.9	22.5	25.4	28.2	28.8	30.9	31.2	32.6	30.5	27.6	17.6	7.6
12500	24.8	25.0	25.7	26.1	24.6	22.4	18.0	14.3	17.1	19.9	22.7	23.3	25.5	25.7	27.1	25.3	22.2	12.2	2.2
16000	18.2	18.3	19.1	19.5	18.2	16.3	11.9	8.4	11.4	14.1	16.8	17.3	19.7	19.7	21.1	19.6	16.3	6.3	
20000	11.1	11.0	12.2	12.4	11.3	9.8	5.3	2.1	5.1	8.0	10.4	11.0	13.5	13.3	14.5	13.3	10.0	.0	
25000	3.8	3.5	4.9	4.9	3.9	2.7				1.4	3.7	4.3	6.8	6.5	7.4	6.3	3.4		
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT: S-3A AIRCRAFT
ENG. TF34-GE-2
GROUND RUNUP

OPERATION: HIGH IDLE, 73X RPM
SINGLE ENGINE

METEOROLOGY: TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION: OMEGA 8.2
TEST 74-004-008
RUN 02
AIRCRAFT CODE 138
OPERATION CODE 02012
PROFILE VERSION A
07 NOV 75
PAGE J2

	A=AL											I=ALT										
	10	20	30	40	50	60	70	80	90	100	110	10	20	30	40	50	60	70	80	90	100	110
0																						
10																						
20																						
30																						
40																						
50																						
60																						
70																						
80																						
90																						
100																						
110																						
120																						
130																						
140																						
150																						
160																						
>170																						
>180																						

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																IDENTIFICATION:			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																OMEGA 8.2			
NOISE SOURCE/SUBJECT:																TEST 74-004-008			
S-3A AIRCRAFT																RUN 03			
ENG. TF34-GE-2																AIRCRAFT CODE 138			
GROUND RUNUP																OPERATION CODE 02027			
																BAR PRESS =29.92 IN HG			
																REL HUMID = 70 %			
																07 NOV 75			
																DELTA N = -3.0 DB			
																PAGE 03			
DISTANCE																ANGLE (DEGREES)			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	116.3	119.7	120.7	119.9	121.0	120.2	119.4	117.8	121.5	120.7	122.6	124.6	126.6	124.7	122.6	120.8	115.2	105.2	95.0
250	116.0	117.4	118.4	117.6	118.7	117.9	117.1	115.5	119.1	118.4	120.4	122.3	124.4	122.5	120.4	118.6	113.0	102.9	92.7
315	113.6	115.0	116.0	115.3	116.4	115.5	114.7	113.1	116.8	116.0	118.0	120.0	122.0	120.1	118.1	116.3	110.7	100.6	90.3
400	111.2	112.6	113.6	112.8	113.9	113.1	112.3	110.7	114.3	113.6	115.6	117.6	119.6	117.7	115.7	113.9	108.3	98.2	87.9
500	108.6	110.0	111.0	110.2	111.3	110.5	109.7	108.1	111.7	111.0	113.0	115.0	117.0	115.2	113.2	111.4	105.9	95.7	85.3
630	105.9	107.3	108.3	107.5	108.6	107.8	106.9	105.4	108.9	108.3	110.3	112.3	114.4	112.5	110.5	108.8	103.3	93.0	82.6
800	103.0	104.4	105.4	104.6	105.7	104.9	104.0	102.5	106.0	105.3	107.5	109.5	111.5	109.7	107.7	106.0	100.5	90.2	79.7
1000	99.9	101.4	102.3	101.5	102.6	101.8	100.9	99.4	102.9	102.2	104.4	106.4	108.5	106.7	104.7	103.1	97.5	87.1	76.7
1250	96.6	98.0	98.9	98.2	99.3	98.4	97.5	96.0	99.5	98.8	101.0	103.1	105.1	103.4	101.4	99.8	94.2	83.8	73.3
1600	92.9	94.4	95.3	94.6	95.6	94.8	93.9	92.3	95.8	95.1	97.4	99.4	101.5	99.8	97.8	96.2	90.6	80.1	69.6
2000	88.9	90.4	91.4	90.6	91.6	90.8	89.8	88.3	91.7	91.0	93.4	95.4	97.5	95.7	93.8	92.2	86.6	76.1	65.6
2500	84.4	86.0	87.3	86.3	87.2	86.4	85.3	83.8	87.1	86.5	88.9	90.9	93.0	91.3	89.4	87.7	82.1	71.7	60.9
3150	79.7	81.4	82.7	81.7	82.3	81.8	80.2	78.7	82.0	81.4	83.9	85.9	87.9	86.3	84.3	82.7	77.1	66.6	55.4
4000	74.4	76.2	77.5	76.5	77.1	76.6	74.7	72.9	76.2	75.5	78.4	80.3	82.2	80.6	78.7	77.0	71.4	60.7	48.7
5000	68.7	70.4	71.7	70.7	71.3	70.8	68.7	66.6	69.8	69.2	72.6	74.3	76.1	74.7	72.5	70.8	65.9	54.7	41.8
6300	62.4	64.3	65.3	64.2	64.8	64.4	62.4	60.2	63.4	62.5	66.1	67.8	69.7	69.0	66.9	65.3	60.5	48.6	34.5
8000	56.4	58.1	59.6	58.4	58.9	58.6	56.0	54.8	57.0	56.0	60.8	63.0	64.4	64.5	62.5	61.1	55.7	43.0	24.4
10000	50.2	52.4	53.8	52.4	53.6	52.8	49.6	48.1	49.7	50.2	55.8	58.1	59.7	59.7	58.0	56.5	50.3	36.4	14.7
12500	43.0	46.0	47.3	46.0	47.4	46.3	42.0	40.6	42.9	43.7	50.1	52.6	54.5	54.6	53.0	51.5	44.7	29.3	4.9
16000	35.2	38.8	40.3	39.0	40.1	38.8	34.8	33.7	35.3	36.4	43.4	46.3	48.8	49.0	47.3	45.7	38.5	17.2	
20000	25.5	30.7	32.5	30.7	31.9	30.5	26.2	25.8	27.1	28.5	35.4	38.5	42.2	42.7	41.1	39.7	31.6	5.2	
25000	10.1	18.8	21.2	19.5	19.9	18.2	14.3	12.5	14.7	16.2	26.8	31.0	34.9	35.5	33.8	32.1	21.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(S-3A AIRCRAFT )										) OMEGA 8.2									
(ENG. TF34-GE-2 )										) TEST 74-004-008									
(GROUND RUNUP )										) RUN 03									
(OPERATION: )										) METEOROLOGY:									
(ENGINE RUNUP, T5 DISABLE )										) TEMP = 59 F									
(SINGLE ENGINE, 93% RPM )										) BAR PRESS = 29.92 IN HG									
( )										) REL HUMID = 70 %									
( )										) DELTA N = -3.0 DB									
( )										) AIRCRAFT CODE 138									
( )										) OPERATION CODE 0207									
( )										) PROFILE VERSION A									
( )										) 07 NOV 75									
( )										) PAGE E3									
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180																			
200	119.8	121.2	124.8	121.3	122.6	121.6	121.4	120.3	123.9	123.1	124.6	126.9	129.0	126.7	124.8	122.9	117.5	107.5	97.3
250	117.5	118.9	119.5	119.0	120.3	119.3	119.1	118.0	121.5	120.8	122.3	124.6	126.8	124.4	122.6	120.7	115.3	105.2	95.0
315	115.2	116.5	117.2	116.7	117.9	116.9	116.7	115.6	119.2	118.4	120.0	122.3	124.4	122.1	120.3	118.4	113.0	102.9	92.6
400	112.7	114.1	114.7	114.2	115.4	114.5	114.2	113.1	116.7	115.9	117.5	119.9	122.0	119.7	117.9	116.0	110.6	100.5	90.2
500	110.2	111.5	112.1	111.6	112.9	111.9	111.6	110.6	114.1	113.3	115.0	117.3	119.5	117.2	115.4	113.5	108.2	98.0	87.5
630	107.4	108.8	109.4	108.9	110.1	109.2	108.9	107.8	111.3	110.6	112.3	114.6	116.8	114.5	112.7	110.9	105.6	95.3	84.9
800	104.6	105.9	106.5	106.0	107.3	106.3	106.0	104.9	108.4	107.7	109.4	111.8	113.9	111.7	109.9	108.1	102.8	92.5	82.0
1000	101.5	102.8	103.5	102.9	104.2	103.2	102.9	101.8	105.3	104.6	106.3	108.7	110.9	108.6	106.9	105.1	99.8	89.4	79.0
1250	98.1	99.5	100.1	99.6	100.8	99.9	99.5	98.5	101.9	101.2	103.0	105.4	107.5	105.3	103.6	101.9	96.5	86.1	75.6
1600	94.4	95.8	96.5	96.0	97.2	96.2	95.8	94.8	98.2	97.5	99.3	101.7	103.9	101.7	100.0	98.3	92.9	82.4	71.9
2000	90.4	91.8	92.6	92.0	93.1	92.2	91.8	90.7	94.1	93.4	95.3	97.7	99.9	97.7	96.0	94.3	88.9	78.4	67.9
2500	86.0	87.5	88.4	87.7	88.7	87.8	87.3	86.3	89.5	88.8	90.8	93.2	95.4	93.3	91.6	89.8	84.4	74.0	63.2
3150	81.2	82.9	83.8	83.1	83.8	83.2	82.2	81.2	84.4	83.7	85.8	88.2	90.3	88.2	86.5	84.8	79.4	68.9	57.7
4000	75.7	77.4	78.4	77.6	78.3	77.7	76.2	74.9	78.1	77.4	79.6	82.1	84.1	82.2	80.4	78.6	73.3	62.5	50.5
5000	69.6	71.3	72.4	71.5	72.2	71.6	69.9	68.1	71.2	70.6	73.8	75.6	77.6	75.9	73.8	72.1	67.3	56.1	43.2
6300	63.0	64.8	65.7	64.7	65.4	65.0	63.2	61.2	64.4	63.5	66.9	68.8	70.6	69.8	67.8	66.2	61.5	49.5	35.4
8000	56.7	58.4	59.8	58.6	59.2	58.9	56.3	55.3	57.5	56.5	61.2	63.4	64.9	64.9	63.0	61.5	56.2	43.5	24.9
10000	50.2	52.4	53.8	52.4	53.6	52.8	49.6	49.1	49.7	50.2	55.8	58.1	59.7	59.7	58.0	56.5	50.3	36.4	14.7
12500	43.0	46.0	47.3	46.0	47.4	46.3	42.0	42.6	42.9	43.7	50.1	52.6	54.5	54.6	53.0	51.5	44.7	29.3	4.9
16000	35.2	38.8	40.3	39.0	40.1	38.8	34.8	34.7	35.3	36.4	43.4	46.3	48.8	49.0	47.3	45.7	38.5	17.2	
20000	25.5	30.7	32.5	30.7	31.9	30.5	26.2	25.8	27.1	28.5	35.4	39.5	42.2	42.7	41.1	39.7	31.6	5.2	
25000	10.1	18.8	21.2	19.5	19.9	18.2	14.3	12.5	14.7	16.2	26.8	31.0	34.9	35.5	33.8	32.1	21.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(S-3A AIRCRAFT																			
(ENG. TF34-GE-2																			
(GROUND RUNUP																			
(OPERATION:																			
(ENGINE RUNUP, 15 DISABLE																			
(SINGLE ENGINE, 93% RPM																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -3.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 138																			
OPERATION CODE 02027																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE F3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-008																			
RUN 03																			
DISTANCE																			
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	103.5	105.0	106.1	105.2	106.2	105.4	104.4	102.3	106.4	105.3	107.0	108.9	110.8	108.5	105.8	103.7	98.1	88.1	78.1
250	101.2	102.7	103.8	102.9	103.9	103.2	102.1	100.0	104.1	103.0	104.8	106.6	108.5	106.2	103.6	101.5	95.9	85.9	75.9
315	98.9	100.4	101.5	100.6	101.6	100.8	99.8	97.6	101.7	100.6	102.4	104.2	106.1	103.9	101.3	99.2	93.7	83.7	73.7
400	96.5	98.0	99.1	98.2	99.1	98.4	97.3	95.2	99.2	98.1	100.0	101.8	103.7	101.5	98.9	96.8	91.4	81.4	71.4
500	93.9	95.5	96.6	95.7	96.6	95.9	94.8	92.7	96.7	95.6	97.5	99.3	101.2	99.0	96.4	94.4	89.0	79.0	69.0
630	91.3	92.9	94.0	93.1	94.0	93.3	92.1	90.0	94.0	92.9	94.8	96.7	98.6	96.4	93.8	91.8	86.5	76.5	66.5
800	88.6	90.2	91.3	90.3	91.3	90.6	89.4	87.2	91.2	90.0	92.1	93.9	95.8	93.6	91.1	89.2	83.9	73.9	63.9
1000	85.7	87.3	88.4	87.5	88.4	87.7	86.4	84.3	88.2	87.0	89.2	91.0	92.8	90.8	88.3	86.3	81.1	71.1	61.1
1250	82.7	84.3	85.4	84.4	85.3	84.6	83.3	81.1	84.9	83.8	86.1	87.9	89.7	87.7	85.3	83.3	78.2	68.2	58.2
1500	79.4	81.0	82.2	81.2	82.0	81.4	79.9	77.8	81.5	80.4	82.8	84.6	86.4	84.5	82.1	80.1	75.0	65.0	55.0
1800	76.0	77.6	78.8	77.8	78.5	78.0	76.3	74.2	77.7	76.7	79.3	81.1	82.8	81.1	78.8	76.8	71.7	61.7	51.7
2000	72.3	73.9	75.2	74.1	74.8	74.3	72.5	70.4	73.7	72.7	75.5	77.4	78.9	77.5	75.1	73.1	68.2	58.2	48.2
2500	68.3	70.0	71.3	70.1	70.8	70.4	68.3	66.3	69.2	68.4	71.5	73.4	74.8	73.6	71.3	69.2	64.3	54.3	44.3
3150	64.1	65.8	67.1	65.9	66.6	66.2	63.9	61.9	64.5	63.8	67.2	69.2	70.4	69.4	67.1	65.0	60.2	50.2	40.2
4000	59.5	61.2	62.7	61.3	62.0	61.6	59.1	57.1	59.4	59.0	62.6	64.6	65.7	64.9	62.7	60.6	55.8	45.8	35.8
5000	54.7	56.3	57.9	56.4	57.2	56.8	54.1	52.2	54.1	54.0	57.8	59.9	60.9	60.3	58.1	56.1	51.3	41.3	31.3
6300	49.8	51.5	53.1	51.6	52.5	52.1	49.2	47.6	48.9	49.2	53.3	55.6	56.6	56.2	54.1	52.1	47.3	37.3	27.3
8000	44.6	46.4	48.1	46.6	47.5	47.1	44.1	42.8	43.8	44.3	48.7	51.1	52.2	52.0	49.9	47.9	43.1	33.1	23.1
10000	39.0	41.1	42.6	41.3	42.3	41.7	38.7	37.9	38.5	39.2	43.9	46.2	47.5	47.5	45.4	43.6	38.7	28.7	18.7
12500	33.1	35.4	36.8	35.6	36.7	36.0	32.9	32.6	32.9	33.8	38.6	41.0	42.5	42.6	40.6	39.1	34.2	24.2	14.2
16000	26.9	29.4	30.6	29.6	30.6	29.8	26.8	26.8	27.1	28.0	33.0	35.4	37.0	37.4	35.7	34.6	29.7	19.7	9.7
20000	20.4	23.1	24.1	23.2	24.0	23.2	20.3	20.6	20.8	21.9	27.0	29.4	31.3	31.8	30.8	30.2	25.4	15.4	5.4
25000																			
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
S-3A AIRCRAFT																			
ENG. TF34-GE-2																			
GROUND RUNUP																			
OPERATION:																			
ENGINE RUNUP, T5 DISABLE																			
SINGLE ENGINE, 93% RPM																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -3.0 DB																			
METEOROLOGY:																			
AIRCRAFT CODE 138																			
OPERATION CODE 02027																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE G3																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-008																			
RUN 03																			
AIRCRAFT CODE 138																			
OPERATION CODE 02027																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE G3																			
DISTANCE																			
(FEET)																			
ANGLE (DEGREES)																			
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180																			
200	105.0	106.4	107.3	106.6	107.7	106.9	106.4	104.7	108.8	107.7	109.0	111.2	113.2	110.4	108.0	105.8	100.4	90.4	80.4
250	102.7	104.2	105.0	104.3	105.4	104.6	104.1	102.5	106.5	105.4	106.7	108.9	110.9	108.2	105.8	103.6	98.2	88.2	78.2
315	100.4	101.8	102.6	102.0	103.1	102.2	101.7	100.1	104.1	103.0	104.4	106.5	108.6	105.8	103.5	101.3	96.0	86.0	76.0
400	98.0	99.4	100.2	99.6	100.7	99.8	99.3	97.7	101.6	100.5	101.9	104.1	106.1	103.4	101.1	98.9	93.7	83.7	73.7
500	95.5	96.9	97.7	97.1	98.2	97.3	96.8	95.1	99.1	97.9	99.4	101.6	103.6	100.9	98.6	96.5	91.3	81.3	71.3
630	92.9	94.3	95.1	94.5	95.5	94.7	94.1	92.5	96.4	95.2	96.8	99.0	101.0	98.3	96.0	93.9	88.8	78.8	68.8
800	90.1	91.6	92.4	91.7	92.8	92.0	91.3	89.7	93.6	92.4	94.0	96.2	98.2	95.6	93.3	91.2	86.2	76.2	66.2
1000	87.3	88.8	89.6	88.9	89.9	89.1	88.4	86.7	90.6	89.4	91.1	93.3	95.3	92.7	90.5	88.4	83.4	73.4	63.4
1250	84.2	85.7	86.5	85.8	86.8	86.1	85.2	83.6	87.3	86.2	88.0	90.2	92.1	89.7	87.5	85.4	80.5	70.5	60.5
1500	81.0	82.5	83.3	82.6	83.5	82.8	81.9	80.3	83.9	82.7	84.7	86.9	88.8	86.5	84.3	82.2	77.3	67.3	57.3
2000	77.5	79.1	79.9	79.2	80.1	79.4	78.3	76.7	80.1	79.0	81.2	83.4	85.2	83.1	81.0	78.9	74.0	64.0	54.0
2500	73.8	75.4	76.3	75.5	76.3	75.7	74.4	72.8	76.1	75.0	77.4	79.7	81.4	79.5	77.3	75.2	70.5	60.5	50.5
3150	69.8	71.5	72.4	71.5	72.4	71.8	70.3	68.7	71.6	70.8	73.4	75.7	77.2	75.6	73.5	71.3	66.6	56.6	46.6
4000	65.3	66.9	68.0	67.0	67.8	67.3	65.5	63.8	66.4	65.7	68.8	71.0	72.3	71.0	68.9	66.7	62.0	52.0	42.0
5000	60.4	62.1	63.3	62.1	62.9	62.5	60.3	58.6	60.8	60.4	63.7	66.0	67.2	66.1	64.0	61.9	57.2	47.2	37.2
6300	55.3	56.9	58.4	57.0	57.8	57.4	54.9	53.2	55.0	54.9	58.5	60.8	61.9	61.0	59.0	56.9	52.3	42.3	32.3
8000	50.1	51.8	53.4	51.9	52.8	52.4	49.6	48.1	49.4	49.7	53.7	56.1	57.1	56.6	54.5	52.5	47.8	37.8	27.8
10000	44.6	46.4	48.1	46.6	47.5	47.1	44.1	42.8	43.8	44.3	48.7	51.1	52.2	52.0	49.9	47.9	43.1	33.1	23.1
12500	39.0	41.1	42.6	41.3	42.3	41.7	38.7	37.9	38.5	39.2	43.9	46.2	47.5	47.5	45.4	43.6	38.7	28.7	18.7
16000	33.1	35.4	36.8	35.6	36.7	36.0	32.9	32.6	32.9	33.8	38.6	41.0	42.5	42.5	40.6	39.1	34.2	24.2	14.2
20000	26.9	29.4	30.6	29.6	30.6	29.8	26.8	26.8	27.1	28.0	33.0	35.4	37.0	37.0	35.4	34.6	29.7	19.7	9.7
25000	20.4	23.1	24.1	23.2	24.0	23.2	20.3	20.6	20.8	21.9	27.0	29.4	31.3	31.8	30.8	30.2	25.4	15.4	5.4
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-008

RUN 03

AIRCRAFT CODE 138

OPERATION CODE 0207

PROFILE VERSION A

07 NOV 75

PAGE J3

NOISE SOURCE/SUBJECT:

S-3A AIRCRAFT

ENG. TF34-GE-2

GROUND RUNUP

OPERATION:

ENGINE RUNUP, T5 DISABLE

SINGLE ENGINE, 93% RPM

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

	P=PNLT										T=ALT									
	A=AL																			
	30	40	50	60	70	80	90	100	110	120	130									
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																				IDENTIFICATION:									
1/3 OCTAVE BAND																				) OMEGA 8.2									
DISTANCE = 250 FEET																				) TEST 74-004-008									
																				) RUN 04									
NOISE SOURCE/SUBJECT:																				) METEOROLOGY:									
((

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																				
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																				
NOISE SOURCE/SUBJECT:										METEOROLOGY:					IDENTIFICATION:					
(S-3A AIRCRAFT)										TEMP = 59 F					) AIRCRAFT CODE 138					
(ENG. TF34-GE-2)										MAXIMUM POWER, 96% RPM					) OPERATION CODE 02031					
(GROUND RUNUP)										SINGLE ENGINE					) PROFILE VERSION A					
															) 07 NOV 75					
										DELTA N = -3.0 DB					) PAGE 04					
DISTANCE (FEET)		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.9	123.8	122.9	122.0	120.7	120.7	120.2	120.0	121.2	125.7	124.6	126.9	127.4	126.8	125.6	122.7	117.7	107.7	97.5	
250	118.6	121.6	120.6	119.7	118.5	118.4	117.9	117.7	118.9	123.4	122.3	124.6	125.1	124.5	123.4	120.5	115.5	105.4	95.3	
315	116.3	119.2	118.3	117.3	116.1	116.1	115.5	115.3	116.5	121.0	120.0	122.2	122.8	122.2	121.1	118.2	113.2	103.1	92.9	
400	113.8	116.7	115.8	114.9	113.6	113.6	113.1	112.8	114.0	118.6	117.5	119.8	120.3	119.8	118.7	115.8	110.8	100.7	90.5	
500	111.2	114.2	113.3	112.3	111.1	111.0	110.5	110.2	111.4	116.0	115.0	117.2	117.8	117.3	116.2	113.3	108.4	98.2	87.9	
630	108.5	111.5	110.6	109.6	108.3	108.3	107.8	107.5	108.7	113.3	112.3	114.5	115.1	114.6	113.6	110.7	105.8	95.6	85.2	
800	105.6	108.6	107.7	106.7	105.5	105.4	104.8	104.6	105.8	110.4	109.4	111.6	112.3	111.8	110.7	108.0	103.0	92.7	82.3	
1000	102.6	105.5	104.6	103.6	102.4	102.3	101.7	101.5	102.7	107.3	106.3	108.6	109.2	108.8	107.8	105.0	100.0	89.7	79.2	
1250	99.2	102.2	101.3	100.3	99.0	98.9	98.3	98.1	99.3	103.9	103.0	105.2	105.9	105.5	104.5	101.7	96.8	86.4	75.9	
1600	95.6	98.5	97.6	96.7	95.4	95.2	94.6	94.4	95.5	100.2	99.3	101.6	102.3	101.9	100.9	98.2	93.2	82.7	72.3	
2000	91.6	94.5	93.6	92.6	91.3	91.2	90.5	90.3	91.4	96.1	95.3	97.5	98.2	97.9	96.9	94.2	89.2	78.7	68.2	
2500	87.1	90.0	89.5	88.2	86.9	86.7	86.0	85.7	86.9	91.6	90.8	93.0	93.7	93.4	92.4	89.7	84.7	74.3	63.7	
3150	82.5	85.0	84.9	83.2	81.9	81.6	80.9	80.6	81.7	86.5	85.8	88.0	88.7	88.4	87.4	84.5	79.7	69.2	58.3	
4000	77.3	79.6	79.7	77.5	76.3	75.8	75.1	74.8	75.8	80.8	80.1	82.2	83.0	82.7	81.6	78.8	74.0	63.4	51.8	
5000	71.5	73.7	73.9	71.4	70.5	69.2	68.5	68.2	69.2	74.3	73.7	75.8	76.6	76.5	75.4	72.6	68.6	57.6	45.1	
6300	65.3	67.3	67.4	65.1	64.4	62.4	61.4	60.8	61.7	67.8	67.1	69.1	70.4	71.2	70.0	67.1	63.2	51.5	38.5	
8000	60.6	61.4	61.2	59.7	59.3	57.3	55.9	54.8	55.4	62.6	62.2	64.4	65.8	66.9	65.9	63.0	58.9	46.7	31.5	
10000	55.6	56.3	56.1	54.5	53.6	52.0	50.0	48.8	49.7	57.0	57.3	59.6	61.2	62.2	61.5	58.6	54.4	41.1	22.8	
12500	49.8	50.4	50.1	48.5	47.6	45.7	43.1	42.4	43.1	51.0	51.9	54.4	56.2	57.2	56.7	53.8	49.3	35.0	14.1	
16000	43.0	43.6	43.2	41.5	40.5	38.5	35.0	35.0	35.2	44.4	45.9	48.7	50.7	52.0	51.5	48.4	43.6	28.5	5.4	
20000	35.0	36.0	35.9	34.2	32.0	30.4	26.2	27.1	27.0	37.2	38.8	42.1	44.5	45.9	45.7	42.5	37.5	16.7		
25000	25.2	26.1	26.8	24.0	20.5	19.3	12.0	12.3	15.3	28.0	30.8	33.9	37.4	39.1	39.0	36.0	29.9	4.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
S-3A AIRCRAFT																
ENG. TF34-GE-2																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-008																
RUN 04																
AIRCRAFT CODE 138																
OPERATION CODE 02031																
PROFILE VERSION A																
07 NOV 75																
PAGE E4																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	123.1	125.8	124.3	124.2	122.7	123.3	122.8	123.1	124.2	128.0	127.0	129.3	130.2	128.8	127.7	124.8
250	120.8	123.5	122.0	122.0	120.4	121.0	120.5	120.8	121.9	125.7	124.7	127.0	127.9	126.5	125.4	122.6
315	118.4	121.1	119.7	119.6	118.0	118.6	118.2	118.5	119.5	123.3	122.3	124.6	125.6	124.2	123.1	120.3
400	116.0	118.7	117.2	117.1	115.6	116.2	115.7	116.0	117.0	120.9	119.9	122.2	123.1	121.8	120.7	117.9
500	113.4	116.1	114.7	114.6	113.0	113.6	113.1	113.4	114.4	118.3	117.3	119.6	120.6	119.3	118.2	115.4
630	110.7	113.4	112.0	111.9	110.3	110.9	110.4	110.7	111.7	115.6	114.6	116.9	117.9	116.6	115.6	112.8
800	107.8	110.5	109.1	109.0	107.4	108.0	107.5	107.8	108.8	112.7	111.8	114.1	115.1	113.8	112.8	110.0
1000	104.7	107.5	106.0	105.9	104.3	104.9	104.4	104.6	105.7	109.6	108.7	111.0	112.0	110.8	109.8	107.1
1250	101.4	104.1	102.7	102.6	101.0	101.5	101.0	101.2	102.3	106.2	105.3	107.6	108.7	107.5	106.5	103.8
1600	97.8	100.5	99.0	98.9	97.3	97.8	97.3	97.5	98.5	102.5	101.7	104.0	105.1	103.9	102.9	100.2
2000	93.7	96.4	95.0	94.9	93.3	93.8	93.2	93.5	94.4	98.4	97.7	99.9	101.0	99.9	98.9	96.3
2500	89.3	92.0	90.9	90.5	88.9	89.2	88.6	88.9	89.9	93.9	93.2	95.4	96.5	95.4	94.5	91.7
3150	84.7	87.0	86.3	85.5	83.9	84.1	83.5	83.8	84.7	88.8	88.1	90.4	91.5	90.4	89.4	86.6
4000	79.1	81.1	80.8	79.3	77.9	77.8	77.2	77.3	78.2	82.6	82.0	84.2	85.2	84.3	83.3	80.4
5000	72.8	74.9	74.7	72.8	71.7	70.8	70.1	70.1	71.0	75.7	75.1	77.3	78.3	77.7	76.6	73.8
6300	66.2	68.0	68.0	66.0	65.2	63.4	62.5	62.0	62.9	68.7	68.1	70.1	71.5	72.0	70.9	67.9
8000	61.0	61.8	61.5	60.1	59.7	57.8	56.4	55.5	56.0	63.0	62.7	64.9	66.4	67.2	66.3	63.4
10000	55.6	56.3	56.1	54.5	53.6	52.0	50.0	48.8	49.7	57.0	57.3	59.6	61.2	62.2	61.5	58.6
12500	49.8	50.4	50.1	48.5	47.6	45.7	43.1	42.4	43.1	51.0	51.9	54.4	56.2	57.2	56.7	53.8
16000	43.0	43.6	43.2	41.5	40.5	38.5	35.0	35.0	35.2	44.4	45.9	48.7	50.7	52.0	51.5	48.4
20000	35.0	36.0	35.9	34.2	32.0	30.4	26.2	27.1	27.0	37.2	38.8	42.1	44.5	45.9	45.7	42.5
25000	25.2	26.1	26.8	24.0	20.5	19.3	12.0	12.3	15.3	28.0	30.8	33.9	37.4	39.1	39.0	36.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
S-3A AIRCRAFT																
ENG. TF34-GE-2																
GROUND RUNUP																
OPERATION:																
MAXIMUM POWER, 96% RPM																
SINGLE ENGINE																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-008																
RUN 04																
AIRCRAFT CODE 130																
OPERATION CODE 02031																
PROFILE VERSION A																
07 NOV 75																
PAGE F4																
DISTANCE																
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(DEGREES)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	106.0	108.9	108.3	106.6	105.5	105.3	104.8	104.4	105.0	110.2	108.8	111.1	111.2	110.5	108.9	105.6
250	103.7	106.6	106.0	104.4	103.2	103.0	102.5	102.1	103.5	107.9	106.5	108.8	108.9	108.2	106.6	103.3
315	101.4	104.2	103.7	102.0	100.9	100.6	100.1	99.7	101.1	105.5	104.1	106.4	106.6	105.8	104.3	101.1
400	99.0	101.8	101.2	99.6	98.5	98.2	97.6	97.3	98.6	103.1	101.7	103.9	104.2	103.4	101.9	98.7
500	96.5	99.3	98.7	97.1	95.9	95.6	95.1	94.7	96.0	100.5	99.2	101.4	101.6	100.9	99.4	96.2
630	93.9	96.7	96.1	94.5	93.3	92.9	92.4	92.0	93.3	97.8	96.5	98.7	99.0	98.3	96.8	93.6
800	91.2	93.9	93.4	91.7	90.6	90.1	89.6	89.1	90.5	95.0	93.7	95.9	96.2	95.6	94.1	90.9
1000	88.3	91.0	90.5	88.8	87.7	87.1	86.5	86.1	87.4	92.0	90.8	92.9	93.3	92.7	91.2	88.1
1250	85.3	87.9	87.5	85.7	84.6	83.9	83.3	82.9	84.2	88.8	87.7	89.8	90.1	89.6	88.2	85.0
1500	82.0	84.5	84.2	82.4	81.4	80.5	79.9	79.4	80.6	85.4	84.3	86.4	86.8	86.4	85.0	81.7
2000	78.6	81.0	80.7	78.9	77.9	76.8	76.2	75.6	76.8	81.7	80.8	82.8	83.3	83.0	81.6	78.3
2500	75.0	77.1	77.0	75.2	74.3	72.9	72.2	71.6	72.6	77.8	77.0	79.0	79.5	79.3	77.9	74.6
3150	71.2	73.0	73.0	71.2	70.4	68.7	67.9	67.2	68.1	73.6	73.0	74.9	75.4	75.4	73.9	70.5
4000	67.1	68.6	68.7	66.9	66.3	64.2	63.4	62.6	63.2	69.2	68.7	70.5	71.1	71.3	69.7	66.2
5000	62.6	63.9	64.0	62.4	61.8	59.4	58.7	57.8	58.1	64.6	64.2	65.9	66.5	66.8	65.1	61.6
6300	57.9	59.0	59.0	57.6	57.2	54.5	53.9	52.8	52.9	59.8	59.4	61.1	61.8	62.1	60.5	57.0
8000	53.4	54.3	54.3	53.0	52.7	50.0	49.2	48.1	48.2	55.3	55.1	56.9	57.8	58.2	56.6	53.2
10000	48.7	49.5	49.4	48.3	47.9	45.4	44.2	43.3	43.4	50.5	50.5	52.5	53.5	54.1	52.6	49.3
12500	43.7	44.4	44.3	43.2	42.7	40.5	39.0	38.1	38.4	45.5	45.7	47.8	48.0	49.7	48.4	45.2
16000	38.2	39.0	38.8	37.7	37.0	35.2	33.3	32.6	33.0	40.0	40.4	42.7	44.1	44.9	43.9	41.1
20000	32.2	33.1	33.0	31.8	30.9	29.5	27.2	26.8	27.3	34.1	34.8	37.2	38.8	39.8	38.2	36.8
25000	25.6	26.8	26.6	25.5	24.4	23.3	20.9	20.7	21.2	27.8	28.9	31.3	33.1	34.3	34.3	32.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																	IDENTIFICATION:		
NOISE SOURCE/SUBJECT:																	) OMEGA 8.2		
S-3A AIRCRAFT																	) TEST 74-004-008		
ENG. TF34-GE-2																	) RUN 04		
GROUND RUNUP																	) AIRCRAFT CODE 138		
(OPERATION:																	) OPERATION CODE 02031		
(MAXIMUM POWER, 96% RPM																	) PROFILE VERSION A		
(SINGLE ENGINE																	) 07 NOV 75		
( )																	) PAGE 64		
( )																	) METEOROLOGY:		
( )																	) TEMP = 59 F		
( )																	) BAR PRESS = 29.92 IN HG		
( )																	) REL HUMID = 70 %		
( )																	) DELTA N = -3.0 DB		
( )																	) ANGLE (DEGREES)		
( )																	) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 >180		
( )																	) DISTANCE		
( )																	) (FEET)		
200	108.2	110.8	109.6	108.9	107.5	107.9	107.4	107.6	108.8	112.5	111.2	113.5	114.0	112.4	110.9	107.7	102.6	92.6	82.6
250	105.9	108.5	107.4	106.6	105.2	105.6	105.1	105.3	106.5	110.2	108.9	111.2	111.7	110.2	108.6	105.4	100.4	90.4	80.4
315	103.6	106.2	105.0	104.3	102.8	103.2	102.7	102.9	104.1	107.8	106.5	108.8	109.4	107.8	106.3	103.1	98.2	88.2	78.2
400	101.2	103.8	102.6	101.9	100.4	100.7	100.3	100.4	101.6	105.4	104.1	106.4	107.0	105.4	103.9	100.8	95.9	85.9	75.9
500	98.7	101.2	100.1	99.4	97.9	98.2	97.7	97.8	99.0	102.8	101.5	103.8	104.4	102.9	101.5	98.3	93.5	83.5	73.5
630	96.1	98.6	97.5	96.8	95.3	95.5	95.0	95.2	96.3	100.1	98.9	101.1	101.8	100.3	98.9	95.7	91.0	81.0	71.0
800	93.3	95.9	94.8	94.0	92.5	92.7	92.2	92.3	93.5	97.3	96.1	98.3	99.0	97.5	96.1	93.0	88.4	78.4	68.4
1000	90.5	92.9	91.9	91.1	89.6	89.7	89.2	89.3	90.4	94.3	93.2	95.4	96.1	94.7	93.3	90.1	85.6	75.6	65.6
1250	87.4	89.8	88.8	88.0	86.6	86.5	86.0	86.0	87.2	91.1	90.0	92.2	92.9	91.6	90.2	87.1	82.7	72.7	62.7
1600	84.2	86.5	85.6	84.7	83.3	83.1	82.5	82.6	83.6	87.7	86.7	88.8	89.6	88.3	87.0	83.8	79.6	69.6	59.6
2000	80.8	82.9	82.1	81.2	79.9	79.4	78.8	78.8	79.8	84.0	83.2	85.3	86.1	85.0	83.6	80.4	76.3	66.3	56.3
2500	77.2	79.1	78.4	77.5	76.2	75.5	74.8	74.8	75.6	80.1	79.4	81.4	82.3	81.3	79.9	76.6	72.7	62.7	52.7
3150	73.4	75.0	74.4	73.5	72.4	71.3	70.6	70.4	71.1	75.9	75.4	77.3	78.2	77.4	75.9	72.6	68.8	58.8	48.8
4000	68.8	70.2	69.8	68.8	67.8	66.3	65.6	65.2	65.6	71.1	70.6	72.5	73.4	72.9	71.3	67.8	64.1	54.1	44.1
5000	63.9	65.1	64.8	63.7	63.0	61.0	60.3	59.7	59.9	66.0	65.6	67.3	68.2	68.0	66.3	62.9	59.3	49.3	39.3
6300	59.7	59.8	59.6	58.5	58.0	55.5	54.9	54.1	54.1	60.7	60.4	62.1	62.9	62.9	61.3	57.8	54.3	44.3	34.3
8000	53.8	54.7	54.6	53.5	53.1	50.5	49.7	48.7	48.8	55.8	55.6	57.4	58.3	58.6	57.0	53.6	50.2	40.2	30.2
10000	48.7	49.5	49.4	48.3	47.9	45.4	44.2	43.3	43.4	50.5	50.5	52.5	53.5	54.1	52.6	49.3	45.9	35.9	25.9
12500	43.7	44.4	44.3	43.2	42.7	40.5	39.0	38.1	38.4	45.5	45.5	47.8	49.0	49.7	48.4	45.2	41.8	31.8	21.8
16000	38.2	39.0	38.8	37.7	37.0	35.2	33.3	32.6	33.0	40.0	40.0	42.7	44.1	44.3	43.9	41.1	37.6	27.6	17.6
20000	32.2	33.1	33.0	31.8	30.9	29.5	27.2	26.8	27.3	34.1	34.8	37.2	38.8	39.8	39.2	36.8	33.2	23.2	13.2
25000	25.6	26.8	26.6	25.5	24.4	23.3	20.9	20.7	21.2	27.8	28.9	31.3	33.1	34.3	34.3	32.7	28.8	18.8	8.8
SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 ((DISTANCE = 250 FEET
 ((NOISE SOURCE/SUBJECT:
 (S-3A AIRCRAFT
 (ENG. TF34-GE-2
 (GROUND RUNUP
 ((OPERATION:
 (MAXIMUM POWER, 96% RPM
 (SINGLE ENGINE
 ((METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = -3.0 DB
 ((IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-004-008
 (RUN 04
 (AIRCRAFT CODE 138
 (OPERATION CODE 02031
 (PROFILE VERSION A
 (07 NOV 75
 (PAGE J4
 (

	P=PNLT										A=AL										T=ALT									
	30	40	50	60	70	80	90	100	110	120	130																			
NOISE LEVEL IN PNDB OR DBA																														
0										
10										
20										
30										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										
160										
>170										
>180										

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

	30	40	50	60	70	80	90	100	
	MEAN VALUE OF NORMALIZED 1/3 OB SPL IN DB								
50	(	.	.	.	.	.	.	.	SD
63	(	.	.	.	.	.	.	.	60.7
80	(	.	.	.	.	.	.	.	4.2
100	(	.	.	.	.	.	.	.	61.1
125	(	.	.	.	.	.	.	.	2.8
160	(	.	.	.	.	.	.	.	64.7
200	(	.	.	.	.	.	.	.	2.6
250	(	.	.	.	.	.	.	.	70.1
315	(	.	.	.	.	.	.	.	5.0
400	(	.	.	.	.	.	.	.	3.3
500	(	.	.	.	.	.	.	.	78.7
630	(	.	.	.	.	.	.	.	3.3
800	(	.	.	.	.	.	.	.	82.2
1000	(	.	.	.	.	.	.	.	5.3
1250	(	.	.	.	.	.	.	.	79.9
1600	(	.	.	.	.	.	.	.	4.4
2000	(	.	.	.	.	.	.	.	82.4
2500	(	.	.	.	.	.	.	.	4.9
3150	(	.	.	.	.	.	.	.	87.6
4000	(	.	.	.	.	.	.	.	4.8
5000	(	.	.	.	.	.	.	.	88.4
6300	(	.	.	.	.	.	.	.	5.3
8000	(	.	.	.	.	.	.	.	89.2
10000	(	.	.	.	.	.	.	.	5.7
	(	.	.	.	.	.	.	.	89.9
	(	.	.	.	.	.	.	.	4.8
	(	.	.	.	.	.	.	.	90.4
	(	.	.	.	.	.	.	.	2.9
	(	.	.	.	.	.	.	.	3.1
	(	.	.	.	.	.	.	.	91.0
	(	.	.	.	.	.	.	.	2.4
	(	.	.	.	.	.	.	.	92.4
	(	.	.	.	.	.	.	.	2.5
	(	.	.	.	.	.	.	.	92.9
	(	.	.	.	.	.	.	.	2.3
	(	.	.	.	.	.	.	.	93.1
	(	.	.	.	.	.	.	.	1.8
	(	.	.	.	.	.	.	.	91.6
	(	.	.	.	.	.	.	.	1.5
	(	.	.	.	.	.	.	.	90.0
	(	.	.	.	.	.	.	.	1.9
	(	.	.	.	.	.	.	.	86.5
	(	.	.	.	.	.	.	.	2.0
	(	.	.	.	.	.	.	.	83.7
	(	.	.	.	.	.	.	.	2.6
	(	.	.	.	.	.	.	.	79.0
	(	.	.	.	.	.	.	.	3.5
	(	.	.	.	.	.	.	.	74.0
	(	.	.	.	.	.	.	.	63.1
	(	.	.	.	.	.	.	.	4.0

T-2C TAKEOFF POWER 101.7 % RPM
 AIRSPEED = 180 KNOTS
 SLANT DISTANCE = 1000 FEET
 NO. OF RECORDS = 6
 IDENT: 6.6-139-103-151275
 TEMP = 59 F
 REL HUMID = 70 %
 PNLT = 113.7 PNDB
 PNL = 113.7 PNDB
 ALT = 101.8 DBA
 AL = 101.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																								A/C CODE: 139	
T-2C																								OPS CODE: 103	
(																								PROFILE VER: A	
(																								15 DEC 75	
(																								PAGE H1	
METEOROLOGY:																									
(																								TEMP = 59 F	
(																								REL HUMID = 70 %	
(
(																								DELTA N = 0.0 DB	
AIRSPEED = 180 KNOTS																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	75	75	79	84	93	96	94	97	102	103	104	105	105	106	108	109	110	109	108	107	105	103	103	99	
250	73	73	77	82	91	94	92	95	100	101	102	103	103	104	106	107	107	107	106	104	103	101	100	96	
315	71	71	75	80	89	92	90	93	98	99	100	101	101	102	104	105	105	104	104	102	100	98	97	92	
400	69	69	73	78	87	90	88	91	96	97	98	98	99	100	102	102	103	102	101	99	97	95	93	88	
500	67	67	71	76	85	88	86	89	94	95	96	96	97	98	99	100	101	100	99	96	94	91	89	83	
630	65	65	69	74	83	86	84	87	92	93	94	94	95	96	97	98	98	97	96	93	91	88	85	77	
800	63	63	67	72	81	84	82	84	90	91	91	92	93	93	95	95	96	94	93	90	88	84	80	71	
1000	61	61	65	70	79	82	80	82	88	88	89	90	90	91	92	93	93	92	90	87	84	79	74	63	
1250	59	59	63	68	77	80	78	80	85	86	87	88	88	89	90	90	90	89	87	83	79	74	67	54	
1600	57	57	61	66	75	78	76	78	83	84	85	85	86	86	87	88	87	85	83	78	74	67	59	43	
2000	55	55	59	64	73	76	74	76	81	82	82	83	83	84	85	85	84	82	79	73	69	60	49	30	
2500	53	53	56	62	70	74	71	74	79	79	80	80	81	81	82	81	80	77	74	67	62	51	37	13	
3000	51	51	54	60	68	72	69	72	77	77	78	78	78	78	78	78	76	73	68	60	54	41	23		
4000	48	49	52	58	66	69	67	69	74	75	75	75	75	75	75	74	72	67	62	51	44	28	6		
5000	46	47	50	55	64	67	65	67	72	72	72	72	72	71	71	69	67	61	54	41	33	13			
6300	44	45	48	53	62	65	62	64	69	69	69	69	68	67	66	64	61	54	45	29	19				
8000	42	42	46	51	59	63	60	62	66	66	66	66	65	64	63	61	58	54	45	34	15	2			
10000	40	40	44	49	57	60	57	59	63	63	63	61	60	58	55	51	45	35	20						
12500	38	38	41	46	55	57	55	56	60	60	59	57	55	52	49	43	35	22	4						
16000	36	36	39	44	52	55	52	53	57	56	54	52	49	45	40	33	23	7							
20000	33	33	37	41	49	52	48	49	53	51	49	46	42	37	31	21	8								
25000	31	31	34	39	46	49	45	46	49	46	43	39	34	27	19	6									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6	
(OPERATION:) METEOROLOGY:) A/C CODE: 139																									
(TAKEOFF POWER) TEMP = 59 F) OPS CODE: 103																									
(101.7 % RPM) REL HUMID = 70 %) PROFILE VER: A																									
(AIRSPEED = 180 KNOTS) DELTA N = 0.0 DB) 15 DEC 75																									
() PAGE L1																									
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	70	70	74	79	88	91	89	92	97	98	99	100	100	101	103	104	105	104	103	102	100	98	98	94	
250	68	68	72	77	86	89	87	90	95	96	97	98	98	99	101	102	102	102	101	99	98	96	95	91	
315	66	66	70	75	84	87	85	88	93	94	95	96	96	97	99	100	100	99	99	97	95	93	92	87	
400	64	64	68	73	82	85	83	86	91	92	93	93	94	95	97	97	98	97	96	94	92	90	88	83	
500	62	62	66	71	80	83	80	83	89	90	91	91	92	93	94	95	96	95	94	91	89	86	84	78	
630	60	60	64	69	77	80	78	81	87	88	89	89	90	91	92	93	93	92	91	88	86	83	80	72	
800	58	58	62	67	74	77	75	78	85	86	86	87	88	88	90	90	91	89	88	85	83	79	75	66	
1000	56	56	60	64	71	74	72	75	82	83	84	85	85	86	87	88	88	87	85	82	79	74	69	58	
1250	54	54	57	61	68	71	69	72	79	81	82	83	83	84	85	85	85	84	82	78	74	69	62	49	
1600	52	51	53	57	65	68	66	68	76	79	80	80	81	81	82	83	82	80	78	73	69	62	54	38	
2000	49	47	50	53	61	64	62	65	73	77	77	78	78	79	80	80	79	77	74	68	64	55	44	25	
2500	45	43	45	49	57	60	57	60	69	73	75	75	76	76	77	76	75	72	69	62	57	46	32	8	
3150	41	39	41	44	52	55	52	55	64	69	72	73	73	73	73	73	71	68	63	55	49	36	18		
4000	37	34	35	39	46	49	47	49	59	64	68	69	70	70	70	69	67	62	57	46	39	23	1		
5000	31	29	31	34	41	44	42	44	53	59	64	65	66	66	66	64	62	56	49	36	28	8			
6300	26	25	26	29	37	39	37	39	47	53	59	61	62	62	61	59	56	49	40	24	14				
8000	24	22	24	27	34	37	34	37	44	50	56	57	58	58	56	53	49	40	29	10					
10000	22	20	22	25	32	35	32	34	41	47	53	53	54	53	50	46	40	30	15						
12500	20	18	19	22	30	32	29	31	38	44	49	49	49	47	44	38	30	17							
16000	18	16	17	20	27	29	26	28	35	40	44	44	43	40	35	28	18	2							
20000	15	13	15	17	24	26	23	24	31	35	39	38	36	32	26	16	3								
25000	13	11	12	15	21	23	19	21	27	30	33	31	28	22	14	1									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
GROUND-TO-GROUND PROPAGATION									
AIRCRAFT:	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
T-2C									
(	113.7	113.7	126.6	126.6	115.5	116.6	118.7		
(	111.4	111.4	124.3	124.3	114.2	115.4	117.4		
(	109.2	109.2	122.0	122.0	113.0	114.1	116.0		
(	106.8	106.8	119.5	119.5	111.6	112.8	114.6		
(	104.4	104.4	116.9	116.9	110.2	111.4	113.0		
(	102.0	102.0	114.3	114.3	108.8	109.9	111.3		
(	99.4	99.4	111.5	111.5	107.2	108.3	109.6		
(	96.8	96.8	108.6	108.6	105.6	106.7	107.6		
(	94.0	94.0	105.4	105.4	103.8	104.9	105.5		
(	91.1	91.1	102.1	102.1	101.9	103.0	103.1		
(	88.0	88.0	98.6	98.6	99.8	101.0	100.6		
(	84.8	84.8	94.7	94.7	97.6	98.7	97.8		
(	81.3	81.3	90.5	90.5	95.1	96.2	94.6		
(	77.5	77.5	85.9	85.9	92.3	93.2	90.7		
(	73.3	73.3	80.8	80.8	89.1	89.8	86.5		
(	68.7	68.7	75.4	75.4	85.5	86.0	81.8		
(	64.1	64.1	69.9	69.9	81.9	82.1	77.0		
(	59.1	59.1	64.4	64.4	77.9	77.9	72.3		
(	53.8	53.8	58.8	58.8	73.6	73.6	67.7		
(	48.0	48.0	52.8	52.8	68.8	68.8	62.7		
(	41.7	41.7	46.0	46.0	63.5	63.5	56.9		
(	34.8	34.8	37.7	37.7	57.6	57.6	49.7		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 6
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*										IDENTIFICATION:			
AIR-TO-GROUND PROPAGATION										OMEGA 6.6			
AIRCRAFT:										A/C CODE: 139			
(OPERATION:										OPS CODE: 104			
(CRUISE POWER										PROFILE VER: A			
(75.0 % RPM										15 DEC 75			
(T-2C										PAGE 12			
(AIRSPEED = 250 KNOTS										DELTA N = 0.0 DB			
METEOROLOGY:													
(TEMP										= 59 F			
(REL HUMID = 70 %													
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)						
200	108.8	109.6	122.3	123.2	102.3	103.3	106.7						
250	106.5	107.3	120.0	120.8	101.0	102.0	105.4						
315	104.1	104.9	117.6	118.4	99.6	100.6	104.0						
400	101.7	102.5	115.0	115.9	98.2	99.2	102.4						
500	99.2	100.0	112.4	113.2	96.8	97.7	100.8						
630	96.7	97.5	109.7	110.5	95.2	96.2	99.1						
800	94.1	94.9	106.9	107.7	93.6	94.6	97.3						
1000	91.4	92.2	103.9	104.7	91.9	92.9	95.3						
1250	88.6	89.5	100.7	101.5	90.2	91.1	93.1						
1600	85.8	86.6	97.5	98.3	88.3	89.3	90.8						
2000	82.8	83.6	94.1	94.9	86.4	87.3	88.5						
2500	79.8	80.6	90.6	91.5	84.3	85.2	86.0						
3150	76.6	77.4	87.0	87.8	82.1	83.0	83.4						
4000	73.2	73.9	83.1	83.7	79.7	80.5	80.3						
5000	69.7	70.2	78.9	79.4	77.3	77.8	76.9						
6300	66.1	66.4	74.8	75.2	74.6	75.0	73.6						
8000	62.3	62.5	71.0	71.1	71.8	72.0	70.6						
10000	58.4	58.4	66.9	66.9	68.9	68.9	67.3						
12500	54.3	54.3	62.8	62.8	65.8	65.8	64.2						
16000	50.0	50.0	58.4	58.4	62.5	62.5	60.8						
20000	45.6	45.6	53.6	53.6	59.1	59.1	57.0						
25000	41.0	41.0	48.4	48.4	55.5	55.5	52.8						

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																								IDENTIFICATION:	
GROUND-TO-GROUND PROPAGATION																								OMEGA 6.6	
AIRCRAFT:																								A/C CODE: 139	
(CRUISE POWER = 59 F																								OPS CODE: 104	
(75.0 % RPM																								REL HUMID = 70 %	
(PROFILE VER: A	
(15 DEC 75	
(AIRSPEED = 250 KNOTS) DELTA N = 0.0 DB																								PAGE L2	
FREQUENCY BAND NUMBER																									
SLANT DISTANCE (FEET)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
200	72	66	68	78	85	86	84	91	87	90	89	90	91	91	92	94	93	92	93	93	92	92	92	91	
250	70	64	66	76	83	84	82	89	85	88	87	88	89	89	90	92	91	90	90	91	89	89	89	88	
315	68	62	64	74	81	82	80	87	83	86	85	86	87	87	88	89	89	88	88	88	87	87	86	84	
400	66	60	62	72	79	80	78	85	81	84	83	84	85	85	85	87	86	85	86	86	84	84	82	80	
500	64	58	60	70	77	78	75	82	79	82	81	81	83	83	83	85	84	83	83	83	81	80	78	75	
630	62	56	58	68	74	75	73	80	77	79	79	79	81	81	81	83	82	80	80	80	78	77	74	69	
800	60	54	56	66	72	72	70	77	75	77	77	77	79	78	79	80	79	78	77	77	74	72	69	63	
1000	58	52	54	63	69	69	67	74	73	75	75	75	76	76	76	78	76	75	74	73	70	68	63	55	
1250	56	50	51	60	66	66	64	71	70	73	73	73	74	74	74	75	74	72	71	69	66	62	56	46	
1600	54	46	48	56	62	63	60	67	67	71	70	70	72	71	71	72	71	69	67	65	61	56	48	35	
2000	50	43	44	52	58	59	57	64	63	69	68	68	69	68	68	69	67	65	63	59	55	49	39	22	
2500	47	39	40	48	54	55	52	59	59	65	66	66	67	66	66	66	64	61	58	53	49	40	27	6	
3150	43	34	35	43	49	50	47	54	55	61	62	63	64	63	62	62	60	50	52	46	41	30	13		
4000	38	29	30	38	44	44	42	48	50	56	58	60	61	60	59	59	55	51	46	38	31	17			
5000	33	25	25	33	39	39	37	43	44	51	54	55	57	56	55	54	50	45	38	28	20	2			
6300	28	20	20	28	34	34	32	38	38	45	50	51	53	52	50	49	44	37	29	16	6				
8000	26	18	18	26	32	32	29	36	35	42	47	48	49	48	45	43	37	29	18	2					
10000	24	16	16	24	29	29	27	33	32	39	43	44	45	43	40	36	29	18	5						
12500	22	14	14	21	27	27	24	30	29	35	39	39	40	37	33	28	19	6							
16000	20	11	11	19	24	24	21	27	25	32	35	34	34	30	25	18	7								
20000	17	9	9	16	22	21	18	23	21	27	30	28	27	22	15	6									
25000	15	6	6	14	19	18	14	20	17	22	24	22	19	12	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 3
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

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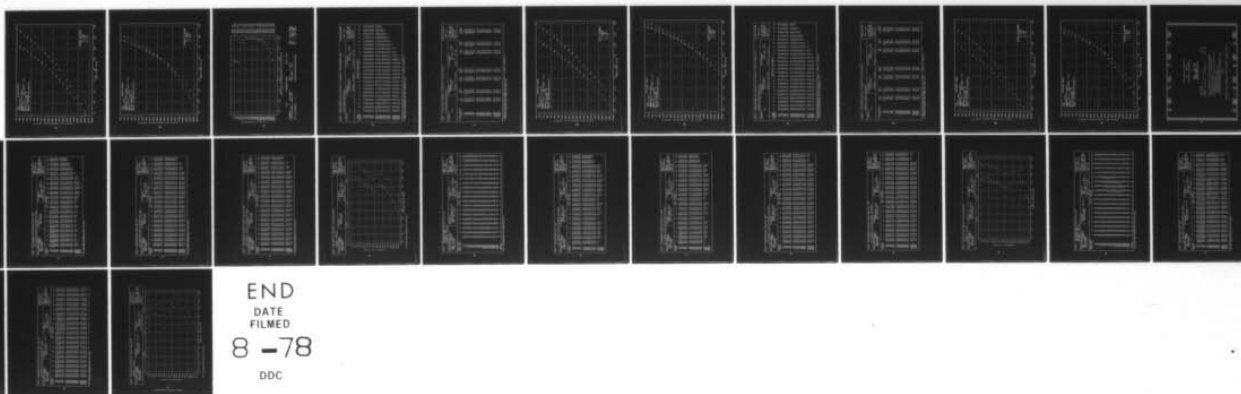
AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 20/1
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS: VO--ETC(U)
MAR 78 J D SPEAKMAN, R G POWELL, R A LEE
AMRL-TR-73-110-VOL-6

UNCLASSIFIED

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6 OF 6

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TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*																							IDENTIFICATION:	
AIR-TO-GROUND PROPAGATION																							OMEGA 6.6	
AIRCRAFT:																							A/C CODE: 139	
((

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
 < BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*									
AIR-TO-GROUND PROPAGATION									
AIRCRAFT:	OPERATION:	APPROACH POWER	METEOROLOGY:	TEMP	REL HUMID	DELTA N	SELT**	SEL	EPNL**
T-2C	(	72.5 % RPM	(	59 F	= 70 %		(DB)	(DB)	(EPNDB)
	(	AIR SPEED = 140 KNOTS	(			0.0 DB			
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)	IDENTIFICATION:	
200	105.7	106.3	119.1	119.7	106.4	107.3	110.5	OMEGA	6.6
250	103.5	104.2	116.8	117.4	105.2	106.1	109.2	A/C CODE: 139	
315	101.3	101.9	114.5	115.1	104.0	104.9	107.9	OPS CODE: 105	
400	99.0	99.6	112.1	112.7	102.7	103.6	106.5	PROFILE VER: A	
500	96.7	97.3	109.6	110.2	101.4	102.3	105.0	15 DEC 75	
630	94.3	94.9	106.9	107.6	100.0	100.9	103.3	PAGE 13	
800	91.9	92.5	104.2	104.8	98.5	99.5	101.6		
1000	89.3	89.9	101.3	101.9	97.0	97.9	99.7		
1250	86.7	87.3	98.3	98.9	95.4	96.3	97.7		
1600	84.0	84.7	95.3	95.9	93.7	94.6	95.7		
2000	81.3	81.9	92.0	92.6	91.9	92.9	93.4		
2500	78.4	79.0	88.6	89.2	90.0	91.0	91.0		
3150	75.4	76.0	84.9	85.5	88.0	89.0	88.3		
4000	72.2	72.7	81.4	81.9	85.9	86.7	85.7		
5000	69.0	69.3	78.0	78.3	83.6	84.2	83.0		
6300	65.6	65.8	74.4	74.6	81.2	81.6	80.2		
8000	62.0	62.1	70.7	70.8	78.7	78.8	77.3		
10000	58.2	58.2	66.7	66.7	75.9	75.9	74.2		
12500	54.3	54.3	62.5	62.5	73.0	73.0	71.0		
16000	50.1	50.1	57.9	57.9	69.8	69.8	67.4		
20000	45.8	45.8	53.2	53.2	66.4	66.4	63.7		
25000	41.1	41.1	48.1	48.1	62.8	62.8	59.6		

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 5
 ** BASED ON SMOOTHED TONE CORRECTION FUNCTION.

[illegible]

T-2C APPROACH POWER											
200	(((((((((((
250	(((((((((((
315	(((((((((((
400	(((((((((((
500	(((((((((((
630	(((((((((((
800	(((((((((((
1000	(((((((((((
1250	(((((((((((
1600	(((((((((((
2000	(((((((((((
2500	(((((((((((
3150	(((((((((((
4000	(((((((((((
5000	(((((((((((
6300	(((((((((((
8000	(((((((((((
10000	(((((((((((
12500	(((((((((((
16000	(((((((((((
20000	(((((((((((
25000	(((((((((((
NOISE LEVEL IN DB											
GROUND TO GROUND											
P = PNLT											
* = PNL											
+ = ALT											
A = AL											

T-2C APPROACH POWER										ST-E									
72.5 % RPM																			
AIRSPEED = 140 KNOTS																			
TEMP = 59 F REL HUMID = 70 %																			
DELTA N = 0.0 DB																			
NO. OF RECORDS: 5																			
IDENT: 6.6-139-105-151275-A																			
200	(	(	(	(	(	(	(	(	(	30	40	50	60	70	80	90	100	110)
250	((((((((()
315	((((((((()
400	((((((((()
500	((((((((()
S 630	((((((((()
L 800	((((((((()
A 1000	((((((((()
N 1250	((((((((()
T 1600	((((((((()
D 2000	((((((((()
I 2500	((((((((()
S 3150	((((((((()
T 4000	((((((((()
A 5000	((((((((()
N 6300	((((((((()
C 8000	((((((((()
E 10000	((((((((()
I 12500	((((((((()
N 16000	((((((((()
A 20000	((((((((()
25000	((((((((()
GROUND TO GROUND																			
E = EPNL																			
T = SELT																			
S = SEL																			

[illegible]

NOISE PRODUCED ON THE GROUND BY

T-2C AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-009
AIRCRAFT CODE: 139
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING

PAGE

IDLE - 50% RPM, 550 C EGT, 640 LBS/HR	489
70% RPM	495
MAXIMUM - 100% RPM, 665 C EGT, 2675 LBS/HR	501

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY

NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

PERCEIVED NOISE LEVEL

PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL

A-WEIGHTED OVERALL SOUND LEVEL

A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

IONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

07 NOV 75

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

[illegible]

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
(T-2C AIRCRAFT																			
(ENG. J85-GE-4A																			
(GROUND RUNUP																			
(OPERATION:																			
(IDLE, 50% RPM																			
(SINGLE ENGINE																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -3.0 DB																			
(AIRCRAFT CODE 139																			
(OPERATION CODE 02013																			
(PROFILE VERSION A																			
(07 NOV 75																			
(PAGE C1																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180	
50	59<	60<	61<	63<	63<	65<	57	60	59	61	62	63	65	66	66	60	53	46	
63	59<	60<	61<	63<	63<	65<	61<	62	62<	64	64	67	69	70	71	69	62	55	49
80	59	60	61	63	63	65	64	65	65	67	67	69	70	72	71	70	64	57	50
100	62	63	64	69	70	73	71	68	71	72	73	76	79	78	79	76	69	63	56
125	62	62	65	67	66	68	67	66	68	70	71	74	75	77	76	72	65	58	52
160	66	67	69	68	66	70	68	69	69	71	72	74	75	76	73	68	61	55	48
200	64	65	67	68	64	67	67	68	68	68	74	75	75	75	72	66	59	52	46
250	63	66	65	66	66	66	66	65	67	71	73	75	75	75	70	63	56	49	43
315	64	64	66	65	64	64	65	64	67	66	71	72	73	71	68	62	55	48	42
400	62	63	66	64	63	62	66	63	66	65	70	72	72	70	65	59	52	46	39
500	63	63	64	64	63	62	64	64	66	63	70	72	73	69	64	57	51	44	37
630	63	63	64	65	64	62	65	64	66	65	71	73	74	73	64	61	54	47	41
800	63	63	63	65	63	61	64	64	64	60	68	71	72	69	65	60	53	47	40
1000	66	66	66	67	64	63	65	65	66	62	68	70	71	66	63	56	49	42	36
1250	67	66	67	69	65	63	66	66	66	63	69	71	71	66	62	54	48	41	34
1600	74	72	72	72	69	67	69	68	66	61	69	70	69	64	60	53	47	40	33
2000	72	73	71	72	71	69	68	68	65	62	69	70	69	64	59	54	47	40	34
2500	70	71	69	71	70	68	68	68	65	60	69	70	68	63	58	53	47	40	33
3150	70	70	69	72	69	68	69	68	65	61	69	68	68	62	58	54	48	41	34
4000	86	86	87	85	83	79	77	75	68	64	70	69	69	64	61	56	49	42	36
5000	75	76	77	76	75	71	71	69	64	59	67	67	66	61	57	53	46	39	33
6300	70	73	71	72	71	68	68	66	62	57	65	64	63	58	55	51	45	38	31
8000	78	81	78	80	79	75	74	73	67	61	69	68	67	62	59	55	48	42	35
10000	67	69	66	68	67	64	64	62	58	51	60	59	59	53	50	46	39	32	26
OVERALL	88	88	88	88	86	83	83	82	80	79	83	85	86	85	84	80	73	66	60

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
 > SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
T-2C AIRCRAFT																
ENG. J85-GE-4A																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-009																
AIRCRAFT CODE 139																
OPERATION CODE 02013																
PROFILE VERSION A																
07 NOV 75																
PAGE 01																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)																
200	105.4	106.0	106.1	105.3	103.5	100.5	99.9	98.4	94.3	91.2	97.1	97.8	97.6	94.2	90.8	86.0
250	103.1	103.6	103.7	102.9	101.1	98.1	97.5	96.0	91.9	88.9	94.8	95.4	95.3	91.9	88.6	83.6
315	100.6	101.1	101.2	100.5	98.6	95.6	95.1	93.5	89.5	86.5	92.4	93.0	92.9	89.6	86.2	81.2
400	98.0	98.5	98.6	97.9	96.0	93.0	92.5	91.0	87.0	83.9	89.9	90.6	90.4	87.1	83.7	78.8
500	95.2	95.7	95.8	95.1	93.2	90.3	89.8	88.2	84.3	81.3	87.2	88.1	87.8	84.5	81.2	76.2
630	92.3	92.7	92.9	92.2	90.3	87.3	86.9	85.3	81.5	78.5	84.4	85.4	85.1	81.9	78.6	73.6
800	89.1	89.5	89.7	89.0	87.1	84.2	83.7	82.2	78.5	75.5	81.6	82.7	82.4	79.2	75.7	70.6
1000	85.6	86.0	86.2	85.6	83.7	80.8	80.4	78.9	75.2	72.3	78.6	79.7	79.4	76.4	72.5	67.5
1250	81.9	82.2	82.5	81.8	79.9	77.0	76.7	75.2	71.7	68.8	75.3	76.5	76.2	73.5	69.1	64.0
1600	77.6	78.0	78.2	77.6	75.7	72.9	72.6	71.2	68.1	65.2	71.9	73.1	72.9	70.4	65.5	60.1
2000	73.0	73.3	73.6	73.0	71.0	68.3	68.1	66.7	64.3	61.4	68.2	69.5	69.5	67.1	62.0	56.2
2500	67.7	68.0	68.2	67.7	65.7	63.0	63.1	61.8	60.3	57.2	64.1	65.5	65.9	63.5	57.8	51.9
3150	61.7	61.9	62.2	61.9	59.8	57.3	58.0	57.2	56.0	52.8	59.6	61.4	62.0	59.6	53.4	47.2
4000	56.1	55.4	55.4	55.8	53.5	52.0	52.9	52.1	50.6	47.3	55.1	57.0	57.5	54.9	48.1	41.6
5000	50.6	49.6	49.3	50.0	47.1	45.0	46.5	45.6	44.4	41.1	49.4	51.7	52.4	49.7	42.5	34.2
6300	43.8	42.3	41.9	42.7	39.7	37.1	39.1	38.4	38.2	34.6	43.3	45.7	46.4	43.5	35.3	25.9
8000	35.5	34.0	33.8	34.8	31.4	27.9	31.3	30.8	31.9	27.6	37.8	40.2	41.2	38.2	28.2	17.6
10000	24.8	22.6	23.3	24.4	19.8	14.8	22.3	21.1	23.9	15.3	31.0	34.1	35.1	31.8	20.0	7.7
12500	14.0	11.2	7.2	10.3	8.3	1.7	9.2	7.2	12.7	7.0	22.8	26.5	28.0	24.9	11.8	
16000	3.3								1.6		11.3	16.3	18.9	14.3	3.5	
20000											6.0	9.8	9.7	3.6		
25000																

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(T-2C AIRCRAFT										(OMEGA 8.2									
(ENG. J05-GE-4A										(TEST 74-004-009									
(GROUND RUNUP										(RUN 01									
((AIRCRAFT CODE 139									
((OPERATION CODE 02013									
((PROFILE VERSION A									
((07 NOV 75									
((PAGE E1									
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> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
(T-2C AIRCRAFT)																
(ENG. J85-GE-4A)																
(GROUND RUNUP)																
IDENTIFICATION:																
) OMEGA 0.2																
) TEST 74-004-009																
) RUN 01																
) AIRCRAFT CODE 139																
) OPERATION CODE 02013																
) PROFILE VERSION A																
) 07 NOV 75																
) PAGE F1																
METEOROLOGY:																
) TEMP = 59 F																
) BAR PRESS = 29.92 IN																
) REL HUMID = 70 %																
) DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	90.7	91.3	91.2	90.3	89.5	85.0	84.5	83.0	79.5	75.9	82.7	83.8	83.6	80.4	76.0	70.6
250	88.3	88.9	88.8	87.8	86.0	82.6	82.1	80.6	77.2	73.7	80.5	81.6	81.4	78.3	73.9	68.5
315	85.7	86.3	86.3	85.3	83.4	80.0	79.6	78.1	74.9	71.5	78.2	79.4	79.2	76.1	71.7	66.3
400	83.1	83.6	83.6	82.6	80.8	77.4	77.0	75.6	72.5	69.2	75.9	77.1	77.0	73.9	69.5	64.1
500	80.3	80.8	80.8	79.8	77.9	74.6	74.3	72.9	70.1	66.8	73.5	74.8	74.7	71.7	67.2	61.8
630	77.4	77.8	77.9	76.9	75.0	71.7	71.4	70.2	67.6	64.4	71.0	72.4	72.4	69.4	64.9	59.4
800	74.3	74.5	74.7	73.7	71.8	68.6	68.5	67.3	65.0	61.8	68.5	70.0	70.0	67.0	62.5	57.0
1000	70.9	71.1	71.2	70.4	68.4	65.3	65.4	64.3	62.3	59.2	65.9	67.5	67.5	64.6	60.0	54.4
1250	67.3	67.4	67.5	66.8	64.8	61.9	62.2	61.2	59.6	56.5	63.2	64.8	64.9	62.0	57.3	51.8
1600	63.4	63.4	63.5	63.0	61.0	58.2	58.8	58.0	56.8	53.7	60.4	62.1	62.3	59.4	54.5	49.0
2000	59.3	59.2	59.2	59.0	56.9	54.5	55.3	54.6	53.8	50.8	57.5	59.3	59.5	56.7	51.6	46.1
2500	55.0	54.8	54.7	54.9	52.7	50.5	51.7	51.2	50.7	47.7	54.4	56.3	56.5	53.7	48.5	43.0
3150	50.7	50.3	50.1	50.7	48.5	46.5	47.9	47.5	47.3	44.3	51.0	53.0	53.3	50.6	45.2	39.7
4000	46.2	45.7	45.5	46.4	44.1	42.2	44.0	43.6	43.6	40.5	47.3	49.4	49.7	47.0	41.5	36.0
5000	41.6	41.0	40.9	41.9	39.5	37.7	39.6	39.4	39.5	36.4	43.2	45.3	45.7	42.9	37.5	32.0
6300	36.7	36.1	36.0	37.2	34.7	33.0	35.0	34.8	35.0	31.9	38.7	41.0	41.3	38.5	33.2	27.6
8000	31.5	31.1	31.2	32.4	29.9	28.2	30.5	30.3	30.8	27.9	34.6	36.9	37.3	34.7	29.2	23.8
10000	26.0	25.7	26.1	27.3	24.9	23.3	25.7	25.5	26.3	23.5	30.2	32.4	33.0	30.6	25.0	19.7
12500	20.3	20.1	20.7	21.9	19.6	18.2	20.6	20.4	21.5	18.8	25.4	27.7	28.3	26.1	20.4	15.2
16000	14.3	14.2	15.1	16.1	14.0	12.8	15.2	14.9	16.3	13.8	20.2	22.5	23.2	21.1	15.5	10.5
20000	8.1	8.1	9.2	10.0	8.1	7.2	9.5	9.1	10.7	8.5	14.7	16.8	17.6	15.6	10.4	5.5
25000	1.6	1.7	3.1	3.6	2.0	1.6	3.4	3.0	4.7	3.0	8.7	10.7	11.5	9.8	5.4	.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
T-2C AIRCRAFT																
ENG. J85-GE-4A																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-009																
RUN 01																
AIRCRAFT CODE 139																
OPERATION CODE 02013																
PROFILE VERSION A																
07 NOV 75																
PAGE 61																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	95.1	95.6	95.8	93.9	92.2	88.0	86.8	85.2	80.7	77.4	83.8	84.8	84.6	81.6	77.2	71.7
250	92.7	93.2	93.4	91.5	89.7	85.6	84.4	82.9	78.4	75.2	81.6	82.6	82.4	79.5	75.0	69.5
315	90.1	90.6	90.8	88.9	87.1	83.0	81.9	80.4	76.1	72.9	79.3	80.4	80.2	77.3	72.9	67.3
400	87.5	87.9	88.2	86.3	84.5	80.4	79.3	77.8	73.7	70.6	77.0	78.2	78.0	75.1	70.7	65.1
500	84.7	85.1	85.4	83.5	81.6	77.6	76.6	75.2	71.3	68.2	74.6	75.8	75.7	72.9	68.4	62.8
630	81.8	82.8	82.4	80.5	78.6	74.7	73.8	72.4	68.8	65.8	72.1	73.5	73.3	70.6	66.1	60.5
800	78.7	79.8	79.3	77.4	75.5	71.6	70.8	69.5	66.2	63.3	69.6	71.0	70.9	68.2	63.6	58.0
1000	75.3	75.4	75.8	74.0	72.1	68.3	67.8	66.5	63.5	60.7	67.0	68.5	68.5	65.8	61.1	55.5
1250	71.7	71.7	72.1	70.5	68.5	64.9	64.5	63.4	60.8	58.0	64.3	65.9	65.9	63.2	58.4	52.8
1500	67.8	67.7	68.1	66.7	64.7	61.3	61.1	60.2	58.0	55.2	61.5	63.2	63.2	60.6	55.7	50.0
2000	63.7	63.5	63.8	62.7	60.6	57.5	57.7	56.9	55.0	52.3	58.6	60.4	60.5	57.9	52.8	47.1
2500	59.4	59.1	59.2	58.5	56.4	53.5	54.0	53.4	51.9	49.1	55.5	57.4	57.5	54.9	49.7	44.0
3150	55.1	55.5	54.7	54.3	52.2	49.5	50.3	49.8	48.5	45.7	52.1	54.1	54.3	51.8	46.3	40.7
4000	49.8	49.1	49.2	49.3	47.1	44.6	45.8	45.4	44.5	41.7	48.2	50.3	50.5	47.9	42.5	36.9
5000	44.3	43.6	43.6	44.1	41.8	39.5	41.1	40.7	40.2	37.2	43.8	46.0	46.2	43.6	38.2	32.6
6300	38.4	37.8	37.9	38.7	36.2	34.2	36.0	35.7	35.5	32.5	39.2	41.4	41.7	39.0	33.6	28.0
8000	32.4	31.9	32.1	33.1	30.7	28.8	31.0	30.8	31.1	28.1	34.8	37.1	37.5	35.0	29.5	24.0
10000	26.0	25.7	26.1	27.3	24.9	23.3	25.7	25.5	26.3	23.5	30.2	32.4	33.0	30.6	25.0	19.7
12500	20.3	20.1	20.7	21.9	19.6	18.2	20.6	20.4	21.5	18.8	25.4	27.7	28.3	26.1	20.4	15.2
15000	14.3	14.2	15.1	16.1	14.0	12.8	15.2	14.9	16.3	13.8	20.2	22.5	23.2	21.1	15.5	10.5
20000	8.1	8.1	9.2	10.0	8.1	7.2	9.5	9.1	10.7	8.5	14.7	16.8	17.6	15.6	10.4	5.5
25000	1.6	1.7	3.1	3.6	2.0	1.6	3.4	3.0	4.7	3.0	8.7	10.7	11.5	9.8	5.4	.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

IDENTIFICATION:

OMEGA 8.2

TEST 74-004-009

RUN 01

NOISE SOURCE/SUBJECT:

T-2C AIRCRAFT

ENG. J85-GE-4A

GROUND RUNUP

OPERATION:

IDLE, 50% RPM

SINGLE ENGINE

METEOROLOGY:

TEMP = 59 F

BAR PRESS = 29.92 IN HG

REL HUMID = 70 %

DELTA N = -3.0 DB

AIRCRAFT CODE 139

OPERATION CODE 02013

PROFILE VERSION A

07 NOV 75

PAGE J1

	10	20	30	40	50	60	70	80	90	100	110
ANGLE	NOISE LEVEL IN PNDB OR DBA										
0											
10											
20											
30											
40											
50											
60											
70											
80											
90											
100											
110											
120											
130											
140											
150											
>160											
>170											
>180											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)																			
1/3 OCTAVE BAND																			
DISTANCE = 250 FEET																			
NOISE SOURCE/SUBJECT:																			
T-2C AIRCRAFT																			
ENG. J85-GE-4A																			
GROUND RUNUP																			
IDENTIFICATION:																			
OMEGA 8.2																			
TEST 74-004-009																			
RUN 03																			
AIRCRAFT CODE 139																			
OPERATION CODE 02021																			
PROFILE VERSION A																			
07 MAY 76																			
PAGE C1																			
METEOROLOGY:																			
TEMP = 59 F																			
BAR PRESS = 29.92 IN HG																			
REL HUMID = 70 %																			
DELTA N = -4.2 DB																			
ANGLE (DEGREES)																			
BAND CENTER																			
FREQ (HZ)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
50	66	64	65	66	68	65	66	67	68	69	69	71	72	70	70	67	64	66	
63	64	63	64	65	68	63	65	66	68	67	67	68	71	72	71	69	65	62	64
80	63	61	62	64	64	62	65	66	64	64	64	69	70	68	66	63	60	58	
100	63	61	62	63	64	63	66	66	65	65	65	68	70	72	72	70	66	59	59
125	67	65	68	68	67	67	68	70	69	70	74	74	76	76	73	69	57	60	
160	73	72	75	75	76	74	78	78	77	77	80	80	80	80	79	73	55	61	
200	70	69	74	73	73	72	77	76	76	73	75	76	78	76	75	69	53	58	
250	64	62	64	65	66	67	68	68	68	64	67	72	73	71	67	70	64	52	54
315	59	61	63	63	65	63	64	66	66	64	67	70	71	74	69	69	66	50	51
400	65	68	67	68	68	63	68	67	68	65	69	73	74	72	69	67	48	47	
500	63	64	67	67	68	63	68	66	67	65	67	74	75	73	71	68	46	48	
630	59	59	62	61	61	58	61	59	60	57	59	67	72	68	62	60	44	44	
800	60	61	61	61	60	59	61	59	58	58	60	67	70	72	66	63	42	40	
1000	59	59	59	60	61	59	60	59	58	56	59	66	70	67	61	59	40	38	
1250	59	60	59	61	61	61	60	59	55	54	59	63	68	65	60	60	41	40	
1600	64	62	65	61	63	63	62	58	53	52	55	59	64	68	66	68	51	47	
2000	67	66	64	64	68	67	65	62	54	55	55	58	63	67	64	69	52	46	
2500	65	66	68	63	67	64	64	59	54	54	53	55	61	65	65	71	53	48	
3150	64	64	66	61	64	64	63	58	54	51	51	55	59	64	68	66	49	44	
4000	71	71	72	70	68	66	66	60	57	56	54	57	60	65	68	70	54	49	
5000	81	79	81	79	77	73	75	71	69	66	65	64	62	68	68	68	72	54	50
6300	67	66	67	66	65	64	65	61	59	56	55	55	59	63	62	63	67	49	45
8000	70	70	72	68	68	64	64	59	56	54	56	59	64	62	62	64	66	49	46
10000	72	73	75	72	72	70	70	64	61	57	56	59	62	66	65	69	67	51	51
OVERALL	84	83	85	83	83	81	83	83	82	81	82	85	86	86	85	84	82	69	71
XXX = EXTRAPOLATED OR INTERPOLATED SPL																			

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(T-2C AIRCRAFT																			
(ENG. J85-GE-4A																			
(GROUND RUNUP																			
(
(OPERATION:																			
(ENGINE RUNUP, 70% RPM																			
(SINGLE ENGINE, T-2C																			
(EST. T-38 -1.208																			
(
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS =29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -4.2 08																			
(
(IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 74-004-009																			
(RUN 03																			
(AIRCRAFT CODE 139																			
(OPERATION CODE 02021																			
(PROFILE VERSION A																			
(07 MAY 76																			
(PAGE 01																			
DISTANCE																			
(FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	100.9	99.5	101.5	99.4	98.8	96.1	97.6	94.2	92.4	90.2	90.3	92.6	94.4	96.3	95.8	96.7	98.3	80.0	77.3
250	98.5	97.1	99.1	97.0	96.4	93.6	95.2	91.8	90.0	87.8	87.9	90.4	92.2	93.9	93.4	94.4	95.9	77.6	74.9
315	96.0	94.5	96.5	94.5	93.9	91.1	92.7	89.3	87.5	85.4	85.5	88.2	90.0	91.5	91.0	92.0	93.4	75.1	72.4
400	93.3	91.9	93.9	91.8	91.2	88.5	90.1	86.7	85.0	82.8	83.0	85.8	87.7	89.0	88.5	89.6	90.9	72.5	69.7
500	90.4	89.0	91.0	89.0	88.4	85.7	87.3	84.0	82.2	80.0	80.2	83.2	85.3	86.3	85.9	87.0	88.2	69.6	66.9
630	87.4	86.0	88.8	86.9	85.4	82.7	84.3	81.0	79.2	77.1	77.3	80.6	82.7	83.5	83.1	84.4	85.3	66.6	63.9
800	84.1	82.7	84.7	82.4	80.2	79.5	81.1	77.8	76.1	74.0	74.2	77.9	80.1	80.8	80.1	81.5	82.2	63.4	60.7
1000	80.4	79.1	81.1	79.1	78.6	75.9	77.5	74.4	72.7	70.6	71.0	75.2	77.4	78.0	77.0	78.4	78.9	60.8	57.2
1250	76.4	75.1	77.1	75.1	74.8	72.1	73.7	70.6	68.9	66.9	68.1	72.3	74.5	75.1	73.7	75.2	75.4	56.4	53.5
1500	72.0	70.7	72.7	70.8	70.5	67.9	69.5	66.5	65.0	62.8	64.9	69.3	71.5	72.0	70.0	71.6	71.8	52.5	49.2
2000	67.1	65.8	67.8	66.0	65.8	63.9	64.9	62.2	61.6	59.4	61.6	66.1	68.3	68.7	66.5	67.8	67.9	47.6	44.1
2500	61.5	60.3	62.3	60.6	61.4	59.7	60.0	57.9	57.1	54.8	57.2	62.5	64.8	64.7	62.5	63.5	63.6	41.9	38.3
3150	55.5	54.9	56.4	54.7	56.6	54.8	55.3	53.0	52.4	50.2	52.6	58.3	60.7	60.3	58.0	58.5	58.7	35.2	29.5
4000	50.0	49.1	50.5	49.3	51.3	49.4	50.0	47.6	46.9	44.6	47.4	53.5	55.0	55.5	53.0	53.0	53.2	26.2	18.1
5000	42.9	41.9	44.1	43.0	44.7	42.3	43.8	41.3	40.8	38.0	41.4	48.2	51.0	50.2	47.3	46.2	46.9	14.8	6.6
6300	34.1	33.8	36.6	35.5	36.2	33.7	36.9	34.5	33.7	30.0	34.7	42.5	45.4	44.0	40.9	38.9	39.4	3.3	
8000	24.7	26.9	30.3	29.7	30.4	25.4	30.4	26.4	27.9	23.7	28.3	37.4	40.7	38.9	35.1	32.5	33.0		
10000	11.5	16.9	22.3	21.7	20.5	12.0	22.9	17.8	20.6	15.9	20.8	31.8	34.8	32.9	28.0	23.3	24.7		
12500	9.0	12.5	11.6	11.3		14.4	9.5	13.6	7.8	14.0	26.1	29.1	26.3	21.4	14.8	16.3			
15000	1.1	2.7	1.6	2.1		6.0	1.3	6.8		7.2	17.2	20.9	17.7	11.5	6.3	3.9			
20000										.4	7.1	9.7	9.0	1.6					
25000								.0						.3					

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(T-2C AIRCRAFT																			
(ENG. J85-GE-4A																			
(GROUND RUNUP																			
(OPERATIONS:																			
(ENGINE RUNUP, 70% RPM																			
(SINGLE ENGINE, T-2C																			
(EST. T-38 -1.208																			
(METEOROLOGY:																			
(TEMP = 59 F																			
(BAR PRESS = 29.92 IN HG																			
(REL HUMID = 70 %																			
(DELTA N = -4.2 DB																			
IDENTIFICATION:																			
(OMEGA 8.2																			
(TEST 74-004-009																			
(RUN 03																			
(AIRCRAFT CODE 139																			
(OPERATION CODE 02021																			
(PROFILE VERSION A																			
(07 MAY 76																			
(PAGE E1																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	105.0	103.1	105.2	103.0	102.0	98.8	100.9	97.5	96.0	93.4	93.4	95.1	95.1	97.7	97.1	97.9	99.6	81.4	78.7
250	102.5	100.6	102.8	100.6	99.6	96.4	98.5	95.1	93.6	91.1	91.0	92.9	92.9	95.4	94.8	95.6	97.3	79.0	76.3
315	100.0	98.1	100.3	98.0	97.1	93.9	96.0	92.7	91.2	88.6	88.6	90.7	90.7	93.0	92.4	93.3	94.8	76.5	73.8
400	97.3	95.4	97.5	95.4	94.4	91.3	93.3	90.1	88.6	86.0	86.0	88.4	88.3	90.5	89.9	90.9	92.2	73.8	71.1
500	94.4	92.6	94.8	92.6	91.6	88.5	90.6	87.3	85.8	83.3	83.3	85.8	85.9	87.8	87.2	88.3	89.5	71.0	68.3
630	91.4	89.5	91.7	89.5	88.5	85.5	87.6	84.3	82.8	80.3	80.4	83.1	83.4	85.0	84.4	85.6	86.7	68.0	65.3
800	88.1	86.2	88.4	86.2	85.4	82.2	84.3	81.1	79.7	77.2	77.3	80.5	80.8	82.2	81.5	82.7	83.6	64.7	62.1
1000	84.5	82.6	84.8	82.7	81.8	78.7	80.8	77.7	76.3	73.8	74.1	77.8	78.1	79.4	78.4	79.7	80.2	61.3	58.5
1250	80.5	78.7	80.8	78.7	78.0	74.9	77.0	74.0	72.5	70.1	71.1	74.9	75.2	76.5	75.0	76.4	76.7	57.8	54.9
1600	76.0	74.3	76.4	74.4	73.7	70.7	72.8	69.8	68.6	66.1	68.0	71.9	72.2	73.4	71.4	72.9	73.2	53.8	50.6
2000	71.1	69.4	71.6	69.6	69.0	66.6	68.2	65.5	65.2	62.6	64.7	68.7	69.0	70.2	67.8	69.0	69.3	49.0	45.5
2500	65.5	63.9	66.1	64.1	64.6	62.4	63.2	61.2	60.7	58.1	60.3	65.1	65.5	66.2	63.8	64.7	65.0	43.2	39.7
3150	59.6	58.4	60.1	58.3	59.8	57.6	58.5	56.3	56.0	53.4	55.6	60.9	61.4	61.7	59.3	59.8	60.1	36.5	33.9
4000	53.2	52.0	53.5	52.1	53.8	51.6	52.6	50.2	49.8	47.2	49.9	55.6	56.6	56.7	54.0	54.0	54.3	27.3	19.2
5000	45.3	44.0	45.4	45.1	46.6	44.0	45.8	43.3	42.9	39.9	43.3	49.8	51.4	51.0	48.1	46.9	47.7	15.6	7.4
6300	35.7	35.2	36.1	37.0	37.4	34.8	38.2	35.8	35.2	31.3	35.9	43.5	45.7	44.6	41.4	39.4	40.0	3.9	
8000	25.5	27.7	31.0	30.4	31.1	25.9	31.0	27.1	28.6	24.4	28.9	37.9	40.8	39.2	35.4	32.8	33.3		
10000	11.5	16.9	22.3	21.7	20.5	12.0	22.9	17.6	20.4	15.9	20.8	31.8	34.8	32.9	28.0	23.3	24.7		
12500	9.0	12.5	11.6	11.3		14.4	9.5	13.6	7.8	14.0	26.1	29.1	29.1	26.3	21.4	14.8	14.3		
16000	1.1	2.7	1.6	2.1		6.0	1.3	6.8		7.2	17.2	20.9	17.7	11.5	6.3	3.9			
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
(I-2C AIRCRAFT)																			
(ENG. J85-GE-4A)																			
(GROUND RUNUP)																			
(OPERATION:)																			
(ENGINE RUNUP, 70% RPM)																			
(SINGLE ENGINE, T-2C)																			
(EST. T-38 -1.208)																			
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TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										METEOROLOGY:									
(T-2C AIRCRAFT)										(TEMP = 59 F)									
(ENG. J85-GE-4A)										(BAR PRESS = 29.92 IN HG)									
(GROUND RUNUP)										(REL HUMID = 70 %)									
										(DELTA N = -4.2 DB)									
IDENTIFICATION:																			
										(OMEGA 8.2)									
										(TEST 74-004-009)									
										(RUN 03)									
										(AIRCRAFT CODE 139)									
										(OPERATION CODE 02021)									
										(PROFILE VERSION A)									
										(07 MAY 76)									
										(PAGE 61)									
DISTANCE (FEET)																			
ANGLE (DEGREES)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
200	89.8	87.8	90.0	87.4	86.2	83.2	84.8	81.4	80.2	77.6	78.4	81.8	82.3	83.4	81.9	82.9	84.6	66.2	63.3
250	87.3	85.3	87.5	84.9	83.7	80.8	82.4	79.0	77.9	75.4	76.3	79.7	80.2	81.2	79.6	80.6	82.3	63.8	61.0
315	84.7	82.7	84.6	82.3	81.2	78.2	79.9	76.7	75.6	73.1	74.1	77.6	78.1	79.0	77.3	78.3	79.9	61.4	58.6
400	81.9	80.0	82.1	79.6	78.5	75.6	77.3	74.2	73.3	70.7	71.8	75.5	75.9	76.8	75.0	75.8	77.4	58.9	56.1
500	79.0	77.1	79.2	76.7	75.8	72.9	74.6	71.6	70.8	68.3	69.5	73.2	73.7	74.5	72.5	73.3	74.8	56.3	53.6
630	76.0	74.0	76.1	73.7	72.9	70.1	71.8	68.9	68.2	65.7	67.1	70.9	71.4	72.1	70.0	70.7	72.1	53.6	50.9
800	72.7	70.8	72.8	70.5	69.8	67.1	68.8	66.2	65.5	63.1	64.6	68.6	69.1	69.7	67.4	68.1	69.3	50.8	48.2
1000	69.1	67.4	69.4	67.2	66.7	64.0	65.7	63.3	62.8	60.4	62.0	66.2	66.8	67.3	64.8	65.3	66.4	47.8	45.4
1250	65.3	63.8	65.6	63.6	63.4	60.8	62.5	60.3	59.9	57.5	59.4	63.8	64.3	64.7	62.0	62.3	63.3	44.7	42.4
1600	61.3	60.0	61.7	59.9	60.0	57.5	59.3	57.2	57.0	54.6	56.6	61.2	61.8	62.1	59.2	59.3	60.1	41.5	39.3
2000	57.1	56.2	57.7	56.3	56.5	54.1	56.0	54.1	54.1	51.6	53.9	58.7	59.2	59.4	56.2	56.1	56.8	38.0	36.0
2500	52.8	52.2	53.7	52.5	52.8	50.5	52.4	50.6	50.8	48.3	50.6	55.7	56.3	56.3	53.0	52.5	53.2	34.3	32.4
3150	48.5	48.1	49.5	48.5	48.9	46.6	48.6	46.9	47.0	44.6	47.0	52.3	53.1	52.9	49.3	48.6	49.3	30.4	28.5
4000	43.3	43.1	44.5	43.7	44.1	42.0	43.9	42.1	42.3	39.9	42.4	48.0	49.3	48.9	45.1	44.1	44.9	25.8	24.0
5000	37.9	37.9	39.2	38.6	39.0	37.0	38.8	37.1	37.2	34.9	37.5	43.3	45.1	44.4	40.5	39.3	40.1	20.8	19.1
6300	32.3	32.4	33.8	33.3	33.6	31.7	33.6	31.9	31.9	29.8	32.5	38.5	40.7	39.7	35.6	34.1	34.9	15.5	14.1
8000	27.0	27.5	29.0	28.6	28.8	26.7	29.1	27.5	27.8	25.6	28.3	34.3	36.8	35.6	31.6	29.6	30.1	10.5	9.9
10000	21.7	22.5	24.0	23.8	23.9	21.6	24.4	22.9	23.3	21.2	23.8	29.9	32.6	31.2	27.4	25.0	25.2	5.6	5.7
12500	17.0	18.0	19.7	19.4	19.5	16.9	20.2	18.8	19.4	17.2	19.7	25.7	28.2	26.7	23.2	20.6	20.5	1.1	1.8
16000	12.1	13.3	15.0	14.8	14.9	12.1	15.7	14.4	15.1	12.9	15.3	21.0	23.3	21.9	18.7	16.1	15.7		
20000	7.0	8.2	10.0	9.9	9.9	7.1	11.0	9.8	10.5	8.3	10.6	16.0	18.0	16.7	13.8	11.4	10.5		
25000	1.7	2.8	4.7	4.5	4.7	2.0	6.0	5.1	5.6	3.6	5.6	10.5	12.3	11.1	8.6	6.5	4.9		

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)															IDENTIFICATION:														
1/3 OCTAVE BAND															OMEGA 8.2														
DISTANCE = 250 FEET															TEST 74-004-009														
NOISE SOURCE/SUBJECT:															RUN 02														
T-2C AIRCRAFT															AIRCRAFT CODE 139														
ENG. J85-GE-4A															OPERATION CODE 02031														
GROUND RUNUP															PROFILE VERSION A														
															07 NOV 75														
															PAGE C2														
BAND CENTER																													
FREQ (HZ)															ANGLE (DEGREES)														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180										
50	75	75	74	75	76	76	80	79	79	77	79	81	83	87	87	86	80	73	66										
63	76	76	76	78	77	78	81	80	80	80	81	85	87	91	91	86	79	73	66										
80	75	76	76	77	78	78	81	81	80	80	83	88	90	93	91	86	79	73	66										
100	79	78	79	81	80	81	83	83	83	82	86	91	94	96	93	85	78	72	65										
125	79	80	81	82	82	82	83	84	84	84	88	94	97	97	92	82	75	69	62										
160	81	82	83	84	83	83	84	85	87	86	90	96	99	99	88	79	72	65	59										
200	81	82	84	85	83	85	85	87	88	88	92	99	103	106	102	83	78	71	65	58									
250	85	87	88	88	87	86	87	89	91	90	96	104	106	108	103	95	80	74	68	61									
315	87	88	91	90	88	89	90	92	92	92	99	105	108	108	103	89	82	75	68	62									
400	88	90	91	92	89	89	91	91	93	93	101	107	108	102	94	80	74	67	60										
500	86	89	89	91	89	90	92	92	93	92	102	106	106	101	89	82	75	68	62										
630	88	90	91	92	91	91	93	93	94	94	102	107	107	102	87	84	77	70	64										
800	88	92	91	92	91	92	94	95	95	93	102	107	105	100	88	83	77	70	63										
1000	92	94	95	94	93	92	95	96	95	94	103	107	105	99	89	85	78	72	65										
1250	90	94	96	95	93	93	96	96	97	94	103	107	104	98	91	83	76	70	63										
1600	89	93	96	96	95	94	98	97	97	94	102	105	103	97	90	81	75	68	61										
2000	85	90	93	93	93	93	96	97	97	95	102	105	102	96	88	81	75	68	61										
2500	83	89	91	91	91	92	95	95	97	94	101	103	101	94	86	80	73	67	60										
3150	79	85	88	88	88	88	92	92	94	93	99	103	100	93	85	79	72	65	59										
4000	79	85	87	88	87	87	92	92	94	91	98	101	98	91	85	76	70	63	56										
5000	77	83	85	86	85	86	90	90	92	89	95	98	95	88	82	73	66	59	53										
6300	74	79	81	82	82	82	87	88	90	86	93	97	94	86	77	71	64	57	51										
8000	72	77	79	80	80	80	84	85	87	85	91	96	93	85	75	69	63	56	49										
10000	67	72	74	75	75	76	80	81	83	79	86	92	88	80	69	64	57	51	44										
OVERALL	99	102	103	104	103	103	106	106	107	105	112	117	116	112	103	96	89	82	76										

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:																			
T-2C AIRCRAFT																			
ENG. J85-GE-4A																			
GROUND RUNUP																			
(OPERATION:)																			
(MILITARY POWER, 100% RPM)																			
(SINGLE ENGINE)																			
(TEMP = 59 F)																			
(BAR PRESS = 29.92 IN HG)																			
(REL HUMID = 70 %)																			
(DELTA N = -3.0 DB)																			
METEOROLOGY:																			
AIRCRAFT CODE 139																			
OPERATION CODE 02031																			
PROFILE VERSION A																			
07 NOV 75																			
PAGE D2																			
ANGLE (DEGREES)																			
DISTANCE (FEET)																			
0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180	
200	111.1	114.9	117.0	117.4	116.7	117.0	120.2	120.4	121.8	119.3	126.3	130.2	128.4	122.8	114.4	107.4	100.6	93.8	86.9
250	108.9	112.7	114.8	115.2	114.4	114.8	117.9	118.2	119.5	117.0	124.1	128.0	126.2	120.7	112.2	105.2	98.4	91.5	84.7
315	106.6	110.5	112.6	112.9	112.5	112.5	115.7	115.9	117.2	114.7	121.8	125.7	123.9	118.4	109.9	102.9	96.1	89.2	82.3
400	104.3	108.2	110.3	110.6	109.8	110.2	113.3	113.5	114.9	112.4	119.4	123.3	121.6	116.1	107.6	100.6	93.7	86.8	80.0
500	102.0	105.8	107.9	108.3	107.3	107.7	110.8	111.0	112.4	109.9	117.0	120.8	119.2	113.7	105.2	98.1	91.2	84.4	77.5
630	99.5	103.3	105.5	105.8	104.8	105.2	108.3	108.5	109.8	107.3	114.5	118.3	116.7	111.2	102.8	95.5	88.7	81.8	74.9
800	97.0	100.7	102.9	103.2	102.2	102.5	105.6	105.7	107.1	104.6	111.8	115.6	114.1	108.6	100.2	92.8	86.0	79.1	72.2
1000	94.3	98.0	100.2	100.5	99.5	99.6	102.7	102.9	104.2	101.8	108.9	112.9	111.4	106.0	97.5	90.0	83.1	76.2	69.3
1250	91.4	95.1	97.3	97.6	96.6	96.6	99.6	99.9	101.1	98.8	106.0	109.9	108.5	103.3	94.5	87.0	80.1	73.3	66.2
1600	88.4	92.1	94.2	94.5	93.5	93.4	96.5	96.7	97.8	95.6	102.8	106.8	105.6	100.4	91.5	83.8	77.0	70.0	62.9
2000	85.2	88.8	91.0	91.2	90.2	90.0	93.1	93.2	94.2	92.1	99.4	103.4	102.6	97.4	88.4	80.4	73.5	66.5	59.3
2500	81.6	85.3	87.4	87.7	86.6	86.4	89.5	89.6	90.4	88.4	95.7	99.7	98.8	93.6	84.5	76.6	69.6	62.5	55.3
3150	77.7	81.3	83.5	83.7	82.7	82.4	85.5	85.6	86.2	84.2	91.6	95.8	95.1	89.9	80.3	72.6	65.5	58.3	50.5
4000	73.5	77.0	79.1	79.4	78.3	78.0	81.1	81.2	81.7	79.5	87.2	91.6	90.9	85.7	75.7	68.2	61.1	53.6	45.5
5000	69.2	72.2	74.3	74.6	73.4	73.1	76.3	76.3	76.8	74.6	82.4	87.0	86.2	81.0	70.7	63.4	56.2	48.5	40.4
6300	64.4	67.4	69.1	69.3	68.1	67.8	70.9	71.0	71.5	69.3	77.3	82.2	81.2	76.0	65.3	58.4	51.0	43.0	36.4
8000	59.8	62.7	63.7	63.9	62.7	62.6	65.4	65.5	66.0	64.5	72.7	77.8	77.1	71.9	60.4	53.5	45.5	37.0	28.5
10000	54.5	57.3	58.4	58.3	56.9	57.5	60.0	60.2	60.8	59.7	68.0	73.1	72.6	67.5	55.9	48.1	39.7	30.8	17.8
12500	48.3	51.3	52.4	53.0	51.4	51.8	54.2	54.6	55.2	54.4	62.9	68.1	67.8	62.6	50.8	42.1	32.9	21.6	9.1
16000	41.5	44.5	45.6	46.7	44.8	45.5	47.8	48.3	49.1	48.3	57.4	62.6	62.4	57.3	45.2	35.0	25.0	8.3	.4
20000	34.1	37.1	38.3	39.6	37.3	38.4	40.5	40.9	42.1	41.2	51.3	56.8	56.7	51.5	38.5	26.5	11.9		
25000	24.4	28.7	29.8	31.3	28.8	29.7	32.0	32.5	34.1	32.9	44.3	50.2	50.3	44.7	30.7	12.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)																			
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																			
NOISE SOURCE/SUBJECT:										IDENTIFICATION:									
(I-2C AIRCRAFT										) OMEGA 8.2									
(ENG. J85-GE-4A										) TEST 74-004-009									
(GROUND RUNUP										) RUN 02									
(										) AIRCRAFT CODE 139									
(										) OPERATION CODE 02031									
(										) PROFILE VERSION A									
(										) 07 NOV 75									
(										) PAGE E2									
) METEOROLOGY:																			
(										) TEMP = 59 F									
(										) BAR PRESS =29.92 IN HG									
(										) REL HUMID = 70 %									
(										) DELTA N = -3.0 DB									
) ANGLE (DEGREES)																			
) DISTANCE																			
) (FEET)																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
T-2C AIRCRAFT																
ENG. J85-GE-4A																
GROUND RUNUP																
OPERATION:																
MILITARY POWER, 100% RPM																
SINGLE ENGINE																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-009																
RUN 02																
AIRCRAFT CODE 139																
OPERATION CODE 02031																
PROFILE VERSION A																
07 NOV 75																
PAGE F2																
ANGLE (DEGREES)																
(DISTANCE)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)																
200	100.0	103.7	105.3	105.5	104.5	104.5	107.7	107.8	108.8	106.4	114.1	118.1	116.3	110.6	101.4	94.4
250	97.9	101.5	103.2	103.3	102.4	102.4	105.5	105.6	106.6	104.2	111.9	116.0	114.2	108.5	99.3	92.3
315	95.7	99.4	101.0	101.1	100.2	100.2	103.3	103.4	104.3	102.0	109.7	113.8	112.0	106.4	97.1	90.1
400	93.6	97.2	98.8	98.9	98.0	97.9	101.1	101.2	102.1	99.7	107.5	111.6	109.9	104.2	94.9	87.9
500	91.4	94.9	96.6	96.7	95.7	95.6	98.7	98.9	99.7	97.4	105.2	109.3	107.6	102.0	92.7	85.7
630	89.1	92.7	94.2	94.3	93.3	93.3	96.4	96.5	97.3	95.1	102.9	107.0	105.4	99.8	90.4	83.4
800	86.8	90.3	91.9	91.9	90.9	90.9	93.9	94.0	94.8	92.6	100.5	104.7	103.0	97.5	88.1	81.0
1000	84.4	87.9	89.4	89.5	88.4	88.4	91.4	91.5	92.2	90.1	98.0	102.2	100.7	95.1	85.6	78.6
1250	82.0	85.3	86.8	86.9	85.8	85.8	88.7	88.8	89.5	87.4	95.4	99.7	98.2	92.6	83.1	76.1
1600	79.4	82.7	84.1	84.2	83.1	83.1	86.0	86.1	86.7	84.7	92.7	97.1	95.6	90.1	80.4	73.4
2000	76.7	79.9	81.3	81.4	80.2	80.2	83.0	83.2	83.8	81.8	89.9	94.4	92.9	87.4	77.6	70.7
2500	73.7	77.0	78.3	78.3	77.1	77.1	79.9	80.1	80.6	78.7	86.9	91.4	89.9	84.5	74.4	67.8
3150	70.6	73.8	75.0	75.0	73.8	73.8	76.6	76.7	77.2	75.4	83.7	88.2	86.7	81.2	71.0	64.6
4000	67.1	70.2	71.4	71.4	70.2	70.2	72.9	73.1	73.5	71.8	80.1	84.7	83.1	77.6	67.3	61.1
5000	63.2	66.3	67.4	67.4	66.1	66.1	68.8	69.0	69.4	67.7	76.0	80.7	79.0	73.6	63.1	57.2
6300	58.9	62.0	63.0	62.9	61.7	61.7	64.3	64.6	64.9	63.3	71.7	76.3	74.6	69.2	58.6	52.9
8000	54.6	57.6	58.4	58.4	57.2	57.3	59.8	60.1	60.4	58.9	67.4	72.2	70.6	65.3	54.4	48.7
10000	49.8	52.7	53.4	53.6	52.3	52.5	54.9	55.2	55.6	54.3	62.8	67.6	66.3	61.0	49.8	44.1
12500	44.5	47.3	47.9	48.3	46.9	47.2	49.5	49.9	50.3	49.2	57.7	62.7	61.6	56.3	44.9	39.1
16000	38.8	41.5	42.0	42.6	41.1	41.6	43.7	44.1	44.6	43.7	52.2	57.3	56.5	51.3	39.8	33.5
20000	32.5	35.0	35.6	36.4	34.8	35.4	37.4	37.8	38.4	37.7	46.2	51.3	50.8	45.7	34.3	27.4
25000	25.7	28.0	28.8	29.7	28.0	28.6	30.5	30.9	31.7	31.1	39.5	44.8	44.6	39.5	28.6	20.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)																
AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE																
NOISE SOURCE/SUBJECT:																
T-2C AIRCRAFT																
ENG. J85-GE-4A																
GROUND RUNUP																
IDENTIFICATION:																
OMEGA 8.2																
TEST 74-004-009																
AIRCRAFT CODE 139																
OPERATION CODE 02031																
PROFILE VERSION A																
07 NOV 75																
PAGE 62																
METEOROLOGY:																
TEMP = 59 F																
BAR PRESS = 29.92 IN HG																
REL HUMID = 70 %																
DELTA N = -3.0 DB																
ANGLE (DEGREES)																
DISTANCE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
200	100.0	103.7	105.3	105.5	104.5	104.5	107.7	107.8	108.8	106.4	114.1	118.1	116.3	110.6	102.0	94.4
250	97.9	101.5	103.2	103.3	102.4	102.4	105.5	105.6	106.6	104.2	111.9	115.0	114.2	108.5	99.9	92.3
315	97.7	99.4	101.0	101.1	100.2	100.2	103.3	103.4	104.3	102.0	109.7	113.8	112.0	106.4	97.8	90.1
400	93.6	97.2	98.8	98.9	98.0	97.9	101.1	101.2	102.1	99.7	107.5	111.6	109.9	104.2	95.6	87.9
500	91.4	94.9	96.6	96.7	95.7	95.6	98.7	98.9	99.7	97.4	105.2	109.3	107.6	102.0	93.3	85.7
630	89.1	92.7	94.2	94.3	93.3	93.3	96.4	96.5	97.3	95.1	102.9	107.0	105.4	99.8	91.0	83.4
800	86.8	90.3	91.9	91.9	90.9	90.9	93.9	94.0	94.8	92.6	100.5	104.7	103.0	97.5	88.7	81.0
1000	84.4	87.9	89.4	89.5	88.4	88.4	91.4	91.5	92.2	90.1	98.0	102.2	100.7	95.1	86.3	78.6
1250	82.0	85.3	86.8	86.9	85.8	85.8	88.7	88.8	89.5	87.4	95.4	99.7	98.2	92.6	83.7	76.1
1600	79.4	82.7	84.1	84.2	83.1	83.1	86.0	86.1	86.7	84.7	92.7	97.1	95.6	90.1	81.0	73.4
2000	76.7	79.9	81.3	81.4	80.2	80.2	83.0	83.2	83.8	81.8	89.9	94.4	92.9	87.4	78.2	70.7
2500	73.7	77.0	78.3	78.3	77.1	77.1	79.9	80.1	80.6	78.7	86.9	91.4	89.9	84.5	75.1	67.8
3150	70.6	73.8	75.0	75.0	73.8	73.8	76.6	76.7	77.2	75.4	83.7	88.2	86.7	81.2	71.6	64.6
4000	67.1	70.2	71.4	71.4	70.2	70.2	72.9	73.1	73.5	71.8	80.1	84.7	83.1	77.6	67.8	61.1
5000	63.2	66.3	67.4	67.4	66.1	66.1	68.8	69.0	69.4	67.7	76.0	80.7	79.0	73.6	63.5	57.2
6300	58.9	62.0	63.0	62.9	61.7	61.7	64.3	64.6	64.9	63.3	71.7	76.3	74.6	69.2	58.8	52.9
8000	54.6	57.6	58.4	58.4	57.2	57.3	59.8	60.1	60.4	58.9	67.4	72.2	70.6	65.3	54.5	48.7
10000	49.8	52.7	53.4	53.6	52.3	52.5	54.9	55.2	55.6	54.3	62.8	67.6	66.3	61.0	49.8	44.1
12500	44.5	47.3	47.9	48.3	46.9	47.2	49.5	49.9	50.3	49.2	57.7	62.7	61.6	56.3	44.9	39.1
15000	38.8	41.5	42.0	42.6	41.1	41.6	43.7	44.1	44.6	43.7	52.2	57.3	56.5	51.3	39.8	33.5
20000	32.5	35.0	35.6	36.4	34.8	35.4	37.4	37.8	38.4	37.7	46.2	51.3	50.8	45.7	34.3	27.4
25000	25.7	28.0	28.8	29.7	28.0	28.6	30.5	30.9	31.7	31.1	39.6	44.8	44.6	39.5	28.6	20.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

(TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE
 (DISTANCE = 250 FEET
 (NOISE SOURCE/SUBJECT:
 (T-2C AIRCRAFT
 (ENG. J85-GE-4A
 (GROUND RUNUP
 (OPERATION:
 (MILITARY POWER, 100% RPM
 (SINGLE ENGINE
 (METEOROLOGY:
 (TEMP = 59 F
 (BAR PRESS = 29.92 IN HG
 (REL HUMID = 70 %
 (DELTA N = -3.0 DB
 (IDENTIFICATION:
 (OMEGA 8.2
 (TEST 74-004-009
 (RUN 02
 (AIRCRAFT CODE 139
 (OPERATION CODE 2031
 (PROFILE VERSION A
 (07 NOV 75
 (PAGE J2

ANGLE IN DEGREES	NOISE LEVEL IN PNDB OR DBA										
	30	40	50	60	70	80	90	100	110	120	130
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
>160
>170
>180

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.